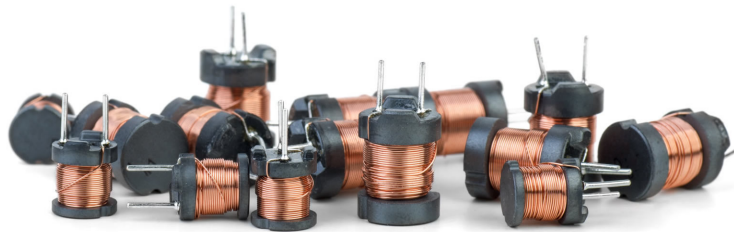


# 產品目錄

## Product catalog



**HSIA**  
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2019. 01. 01初版

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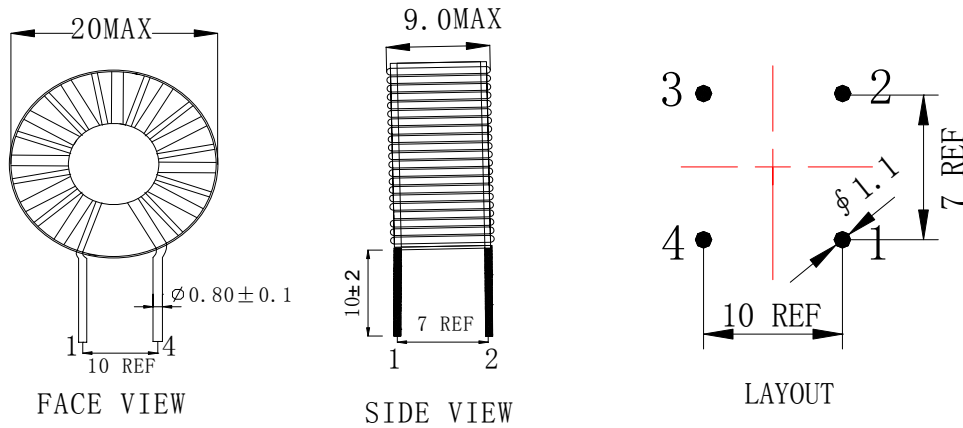
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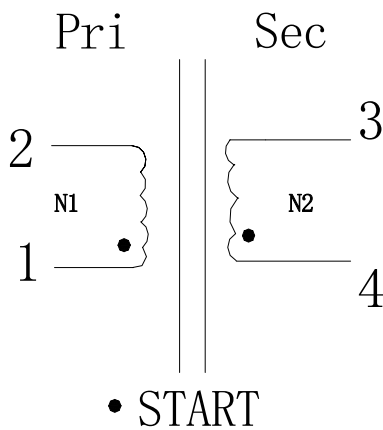
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Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(1-2=4-3)	1.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L( - )	MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-CORE	AC 500V/5mA/60S	CC2672A
4	INSULATION RESISTANCE	COIL-COIL COIL-CORE	DC500V 100MΩ MIN	CHEN HWA 19053 or EQU
5	DC RESISTANCE	R( - )	Ω MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np/Ns	12:12	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

- ◆ Working frequency: 1KHZ—500KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	16.0	±0.4	
D2	9.0	±0.4	
H	5.0	±0.3	
R	3.0	±0.2	

2. Effective Parameter

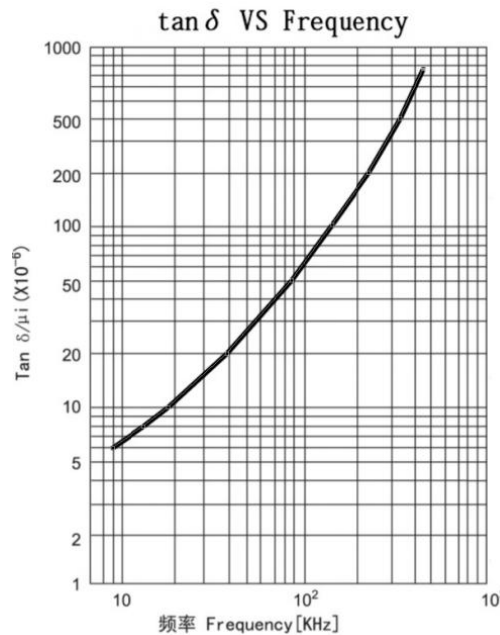
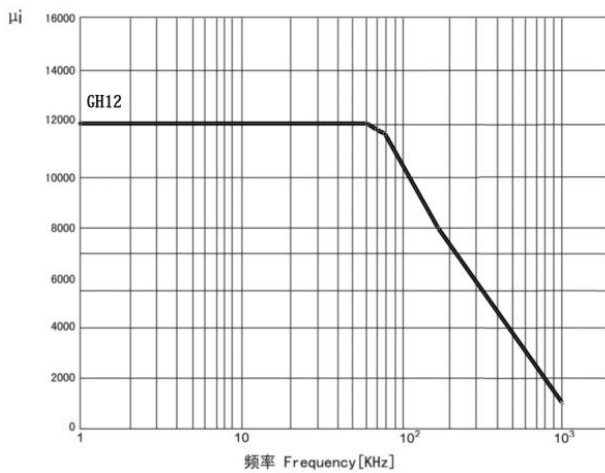
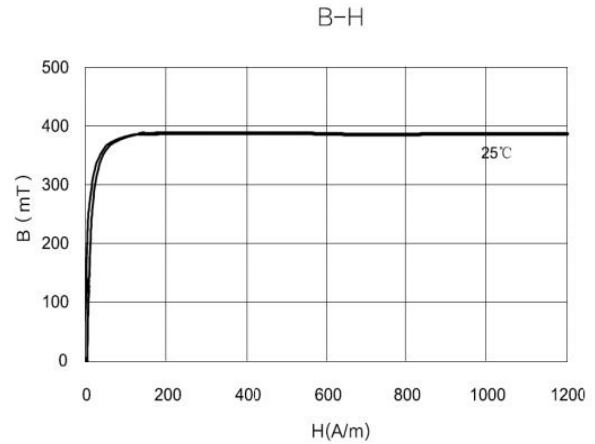
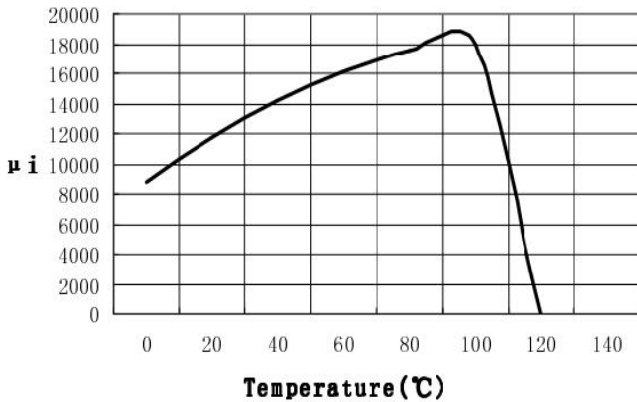
project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	39.25	17.5	686.87

3. The performance requirements

AL= 7000nH/N<sup>2</sup> min test conditions: 1KHz, 0.3V, 100Ts

PL ≤ 95mW/g max test conditions: 100KHz, 200mT, 100°C

4. Characteristic Curve



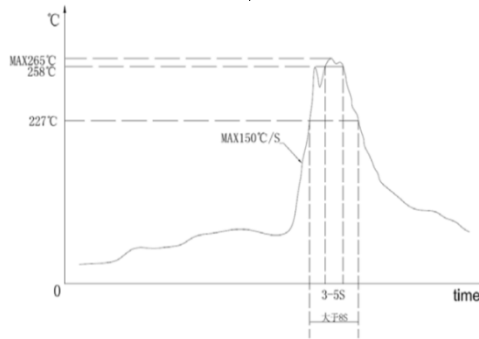
5. Material Properties

材质 MATERIAL: GH12 (以下参数由 T25\*15\*10 标准测试磁环测得)

特性 CHARACTERISTICS		单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu$	25℃	-	12000±25%
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25℃	mT	390
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25℃	mT	90
矫顽力 COERCIVE FORCE $H_c$	25℃	A/m	4.4
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$	0.15
居里温度 CURIE TEMP. $T_c$	-	℃	>115
密度 DENSITY $d$	-	kg/m <sup>3</sup>	4.95×10 <sup>3</sup>
相对损耗因数 Relative loss factor $\tan \delta/\omega$	-	*10 <sup>-6</sup>	≤7 (10KHz)
减落因数 Disaccommodation DF	1-10min	*10 <sup>-6</sup>	≤2
相对温度系数 Relative temperature coefficient ( $\alpha\mu r$ )	-30~20℃	*10 <sup>-6</sup> .1/K	-0.5~2.0
	20~70℃		-0.5~1.5

Wave soldering:

1. The curve for:

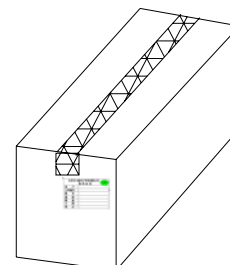
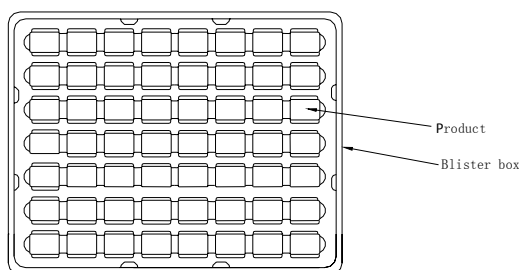


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

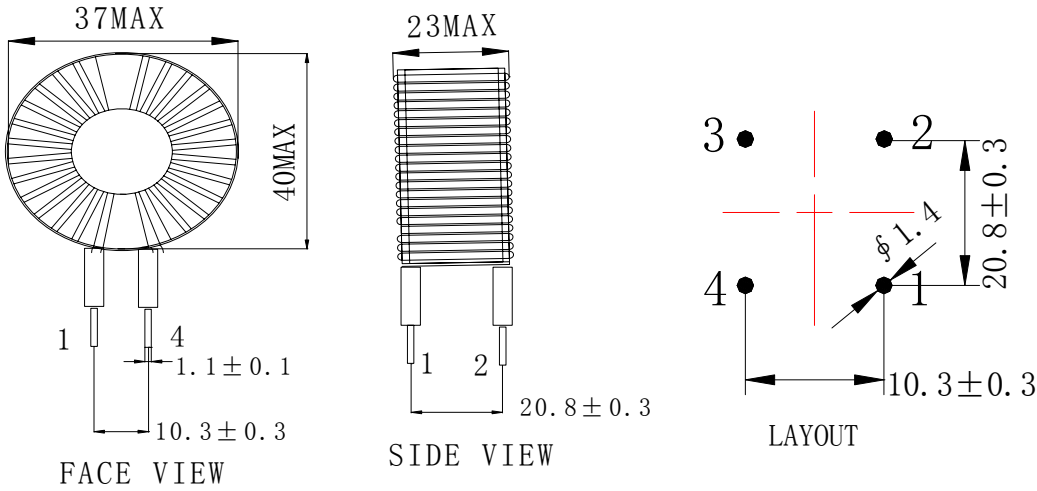
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



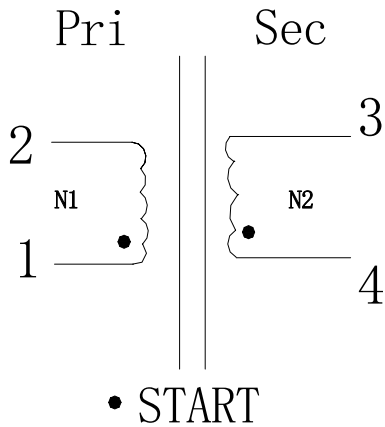
Size of outer box: length \* width \* height (inner size)

## Dimension Diagram (Unit:mm):



Product Pictures

## Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L (1-2=4-3)	50-150uH	CH1062 1KHz 1V
2	Inductance Balance Value	L ( - )	MAX	TH2816B 1KHz 1V
3	HI-POT TEST			CC2672A
4	INSULATION RESISTANCE	COIL-COIL COIL-CORE	DC500V 100MΩ MIN	CHEN HWA 19053 or EQU
5	DC RESISTANCE	R ( - )	Ω MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np/Ns	8:8	CHEN HWA 310 or EQU

## Performance Characteristics And Application Fields:

### Features:

- ◆ Working frequency: 1KHZ—500KHZ.
- ◆ Working temperature: -40to-125℃.
- ◆ Storage temperature: -25to+85℃.
- ◆ Store humidity: 30to95%.

### Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

## Magnetic Core Size And Electrical Properties:

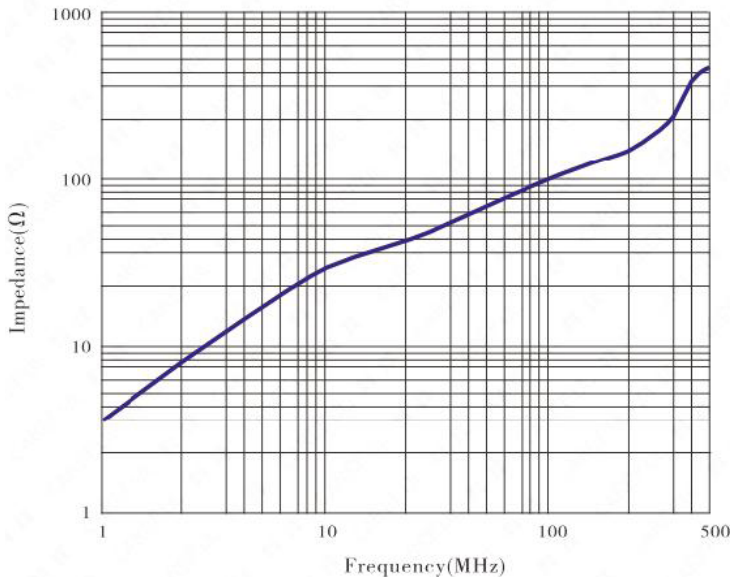
### 1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	31.0	±0.8	
D2	19.0	±0.6	
H	16.0	±0.6	

### 2 电气特性 ELECTRICAL CHARACTERISTICS

项目 ITEMS	规格 SPEC	测试条件 TESTING METHOD	测试仪器 TESTING INSTRUMENT
电气性能 ELECTRIC CHARACTERISTICS		1-500MHz φ 0.5*0.5TS*100L(mm)	E4991A+16194A
Z1 (Ω)	35MIN	Test frequency	25MHZ
Z2 (Ω)	85MIN	Test frequency	100MHZ

### 3. Characteristic Curve



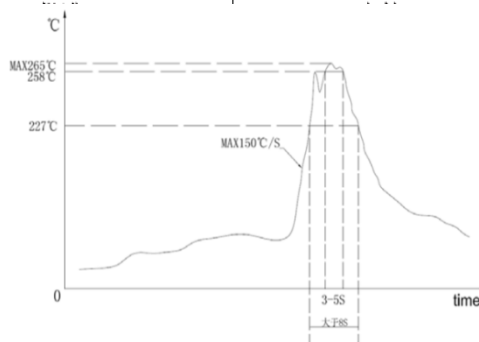
材质 MATERIAL: F2

## 4. Material Properties

特性 CHARACTERISTICS	单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu_i$	25°C	-
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25°C	mT
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25°C	mT
矫顽力 COERCIVE FORCE $H_c$	25°C	A/m
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$
居里温度 CURIE TEMP. $T_c$	-	°C
密度 DENSITY $d$	-	$g/cm^3$
比损耗因子 Relative loss factor $Tan\delta/\mu_i$	-	$*10^{-6}$
比温度系数 Relative Temperature Coefficient $\alpha \mu_i \gamma$	-	$*10^{-6}$

### Wave soldering:

1. The curve for:

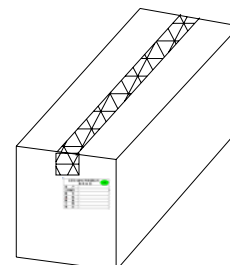
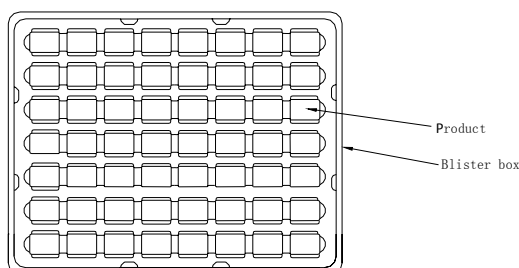


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

### Packing Recognition Standard:

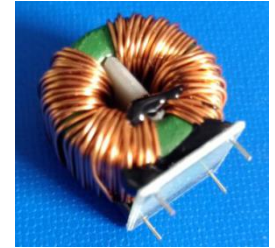
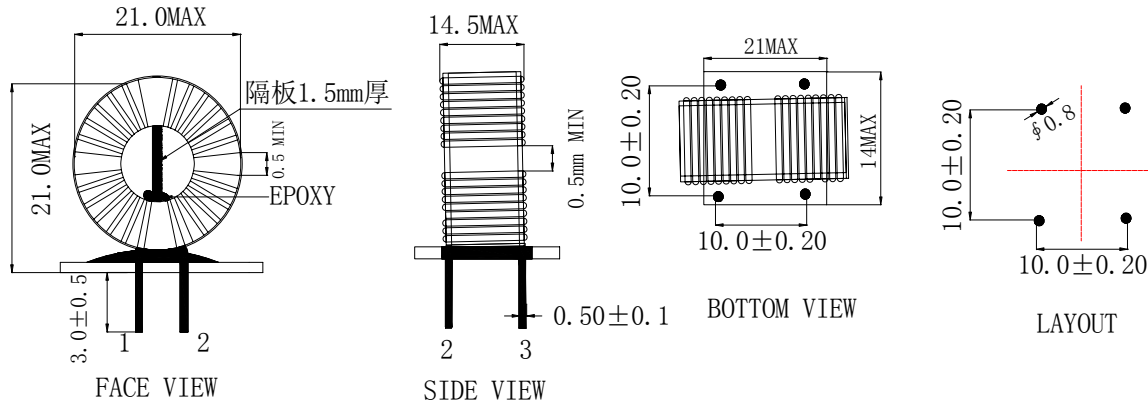
Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



Size of outer box: length \* width \* height (inner size)

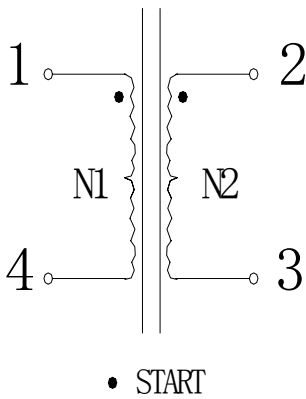


Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(1-4=2-3)	20.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L(1-4)=(2-3)	300uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 1.5KV/5mA/3sec	CC2672A
		COIL-CORE	AC 0.6KV/5mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R(1-4=2-3)	187.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np/Ns	50:50	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

## Magnetic Core Size And Electrical Properties:

### 1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	18.0	±0.4	
D2	10.0	±0.4	
H	10.0	±0.3	
R	3.0	±0.2	

### 2. Effective Parameter

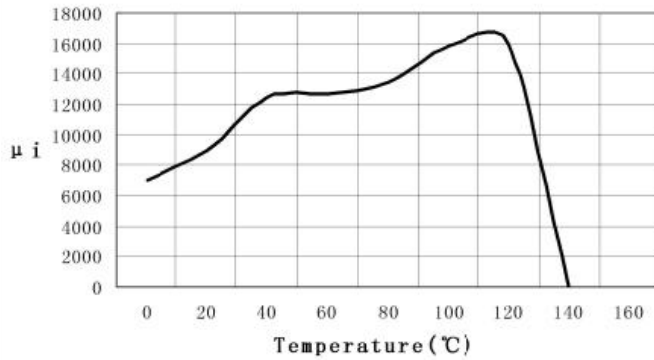
project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	43.96	40.0	1758.4

### 3. The performance requirements

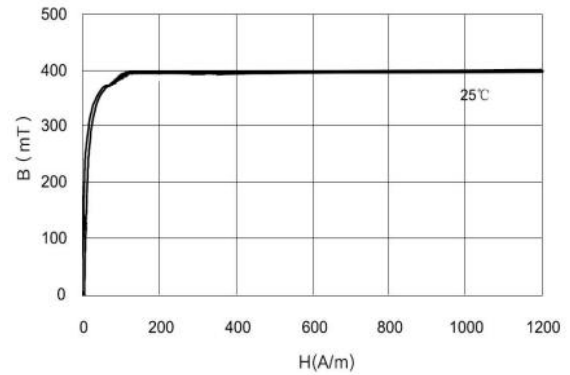
AL= 8000nH/N<sup>2</sup> min test conditions: 1KHz, 0.3V, 100Ts

### 4. Characteristic Curve

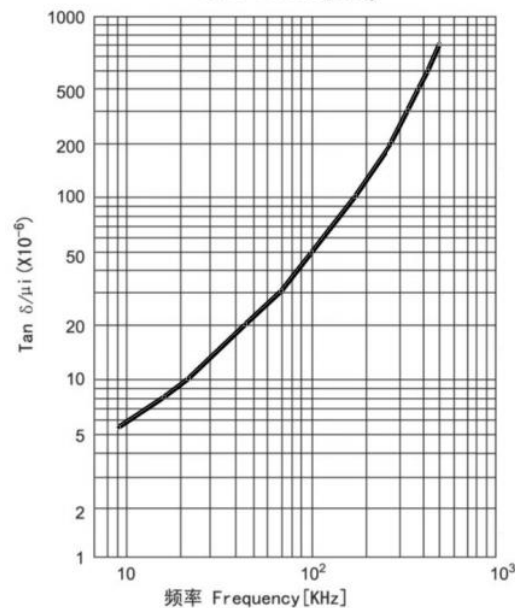
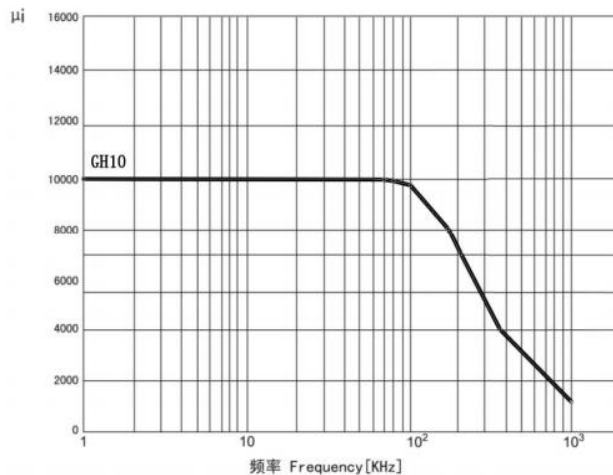
GH10 Permeability VS Temperature



B-H



tan δ VS Frequency



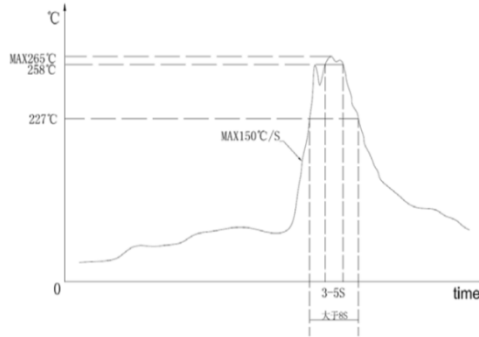
材质 MATERIAL: GH10 (以下参数由 T25\*15\*10 标准测试磁环测得)

5. Material Properties

特性 CHARACTERISTICS		单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu$	25℃	-	10000±25%
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25℃	mT	400
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25℃	mT	90
矫顽力 COERCIVE FORCE $H_c$	25℃	A/m	6
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$	0.15
居里温度 CURIE TEMP. $T_c$	-	℃	>120
密度 DENSITY $d$	-	kg/ m <sup>3</sup>	4.9×10 <sup>3</sup>
相对损耗因数 Relative loss factor $\tan \delta/\omega$	-	*10 <sup>-6</sup>	≤7 (10KHz)
减落因数 Disaccommodation DF	1-10min	*10 <sup>-6</sup>	≤2
相对温度系数 Relative temperature coefficient ( $\alpha_{\mu r}$ )	-30~20℃	*10 <sup>-6</sup> .1/K	-0.5~1.5
	20~70℃		-0.5~1.5

Wave soldering:

1. The curve for:

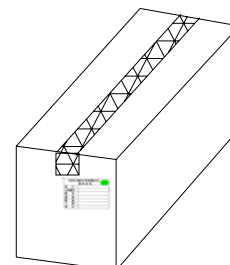
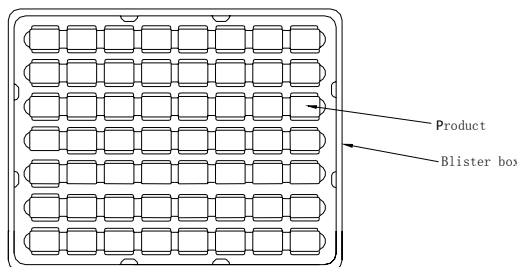


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

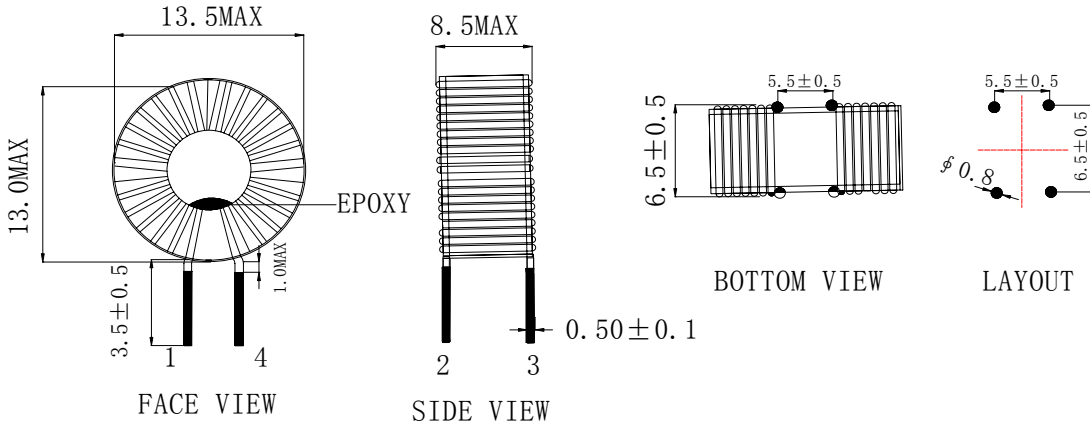
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



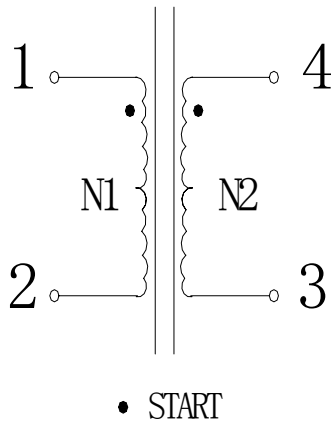
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2=4-3)	1.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L (1-2)=(4-3)	0.2mH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 0.6KV/3mA/3sec	CC2672A
		COIL-CORE	AC 0.5KV/3mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2=4-3)	28mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	N <sub>p</sub> /N <sub>s</sub>	13:13	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

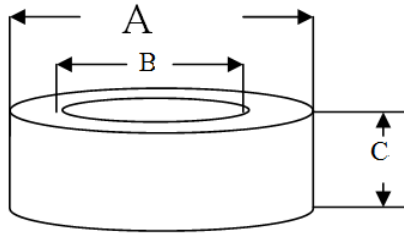
- ◆ Working frequency: 1KHZ—500KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

## Magnetic Core Size And Electrical Properties:

## 1、 Dimensions (mm)



Black: A:10.0±0.4 B:6.0±0.4 C:5.0±0.3

Green: A:10.2±0.4 B:5.8±0.5 C:5.2±0.3

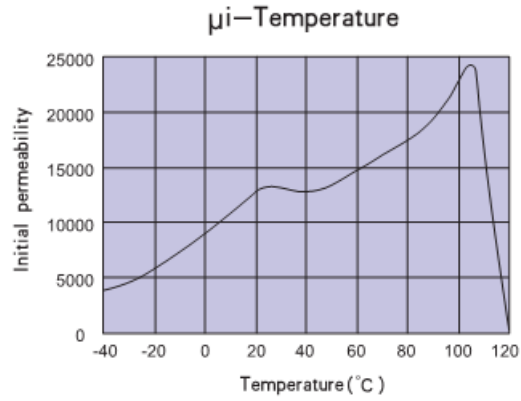
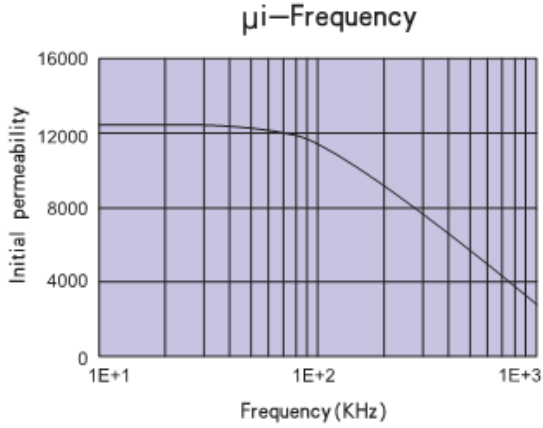
## 2、 Electrical properties

ITEM	SPEC	TEST CONDITIONS	TESTING EQUIPMENT
Inductance	>7.0	1KHZ ,0.25V ,1TS,25±3℃内阻 30Ω	TH2816B
HI-POTTEST	2.5KV	2.5KV/3mA/3s	DS2660

## 3、 材质特性 MATERIAL CHARACTERISTICS (材质 MATERIAL:R10K)

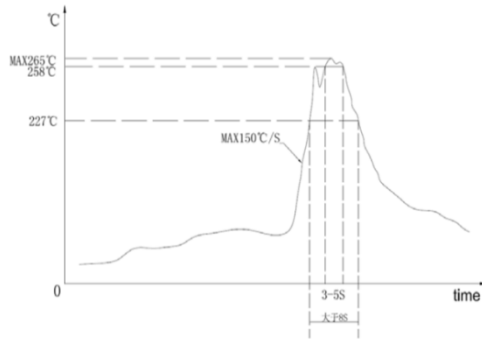
特性 CHARACTERISTICS	单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY	$\mu_i$	15000 ± 25% (10KHZ)
饱和磁通密度 SATURATION MAGNETIC FULUX DENSITY(H=1194/m)	25℃	mT
	100℃	mT
剩余磁通密度 REMANENT FLUX DENSITY	Br	25℃
矫顽力 COERCIBE FORCE	Hc	25℃
比损耗因子 RELATIVE LOSS FACTOR	Tab δ / $\mu_i$	X10 <sup>-6</sup>
初始磁导率比温度系数 RELATIBETEMP.FACTOR		-0.5~1.5(-30-20℃)
		X10 <sup>-6</sup> /℃
居里温度 DURIE TEMP	Tc	℃
电阻率 ELECTRICAL RESISTIVITY	ρ	Ω.m
密度 DENSITY	d	Kg/m <sup>3</sup>
有效长度	Le	mm
有效截面积	Ae	mm <sup>2</sup>
有效体积	Ve	mm <sup>3</sup>
Weight		g

4、Characteristic Curve



Wave soldering:

1. The curve for:

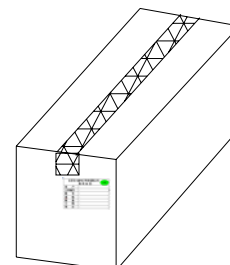
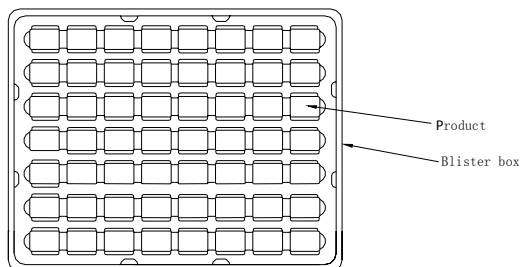


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

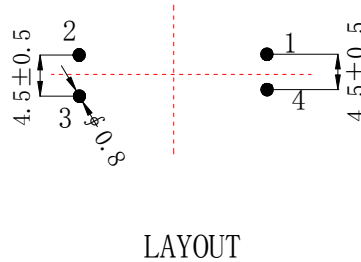
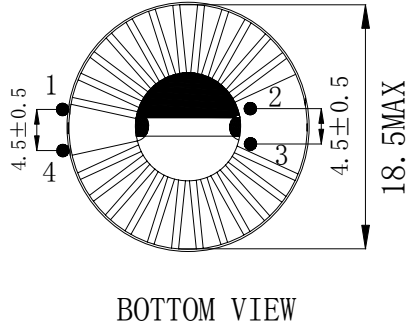
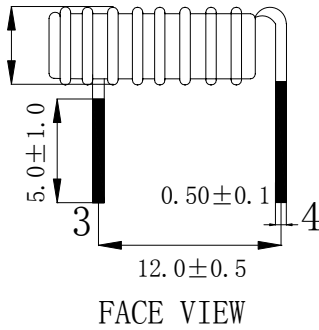
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



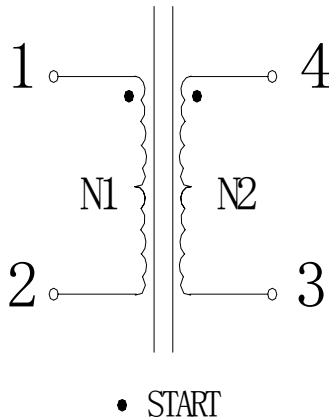
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2=4-3)	15.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L (1-2)=(4-3)	0.2mH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 1.0KV/3mA/3sec	CC2672A
		COIL-CORE	AC 0.5KV/3mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2=4-3)	100.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	N <sub>p</sub> /N <sub>s</sub>	35:35	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

- ◆ Working frequency: 1KHZ—500KHZ.
- ◆ Working temperature: -40to-125℃.
- ◆ Storage temperature: -25to+85℃.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	14.0	±0.4	
D2	8.0	±0.4	
H	7.0	±0.3	
R	3.0	±0.2	

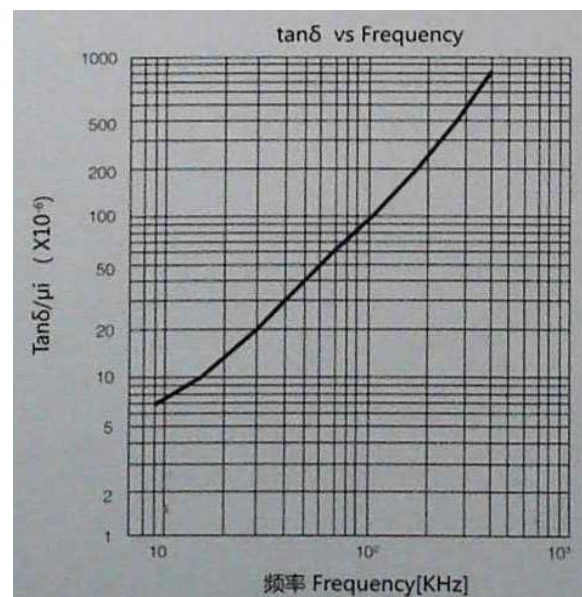
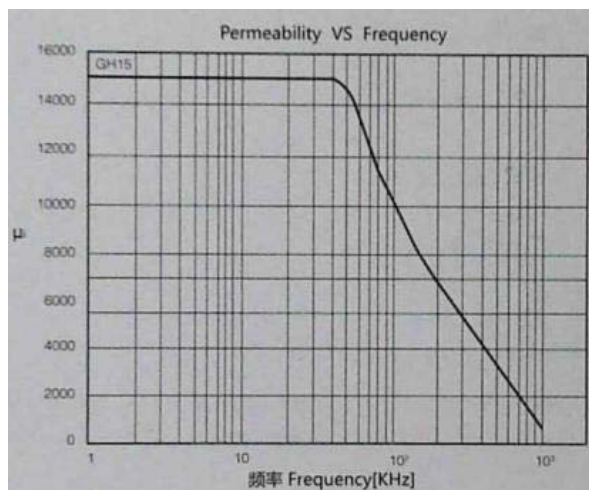
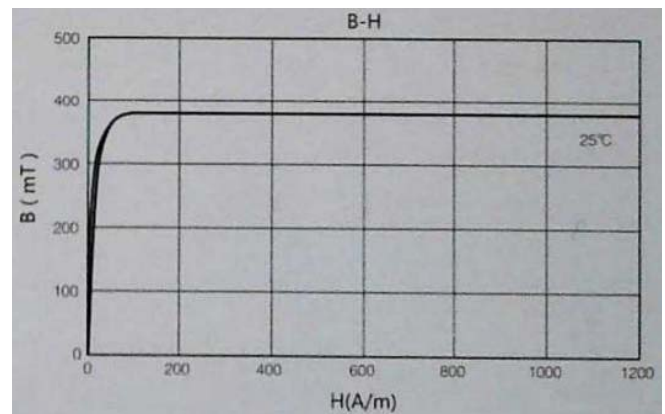
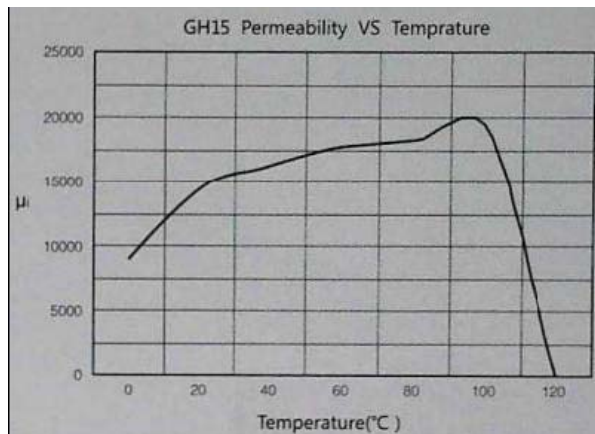
2. Effective Parameter

project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	34.54	21.0	725

3. The performance requirements

AL= 12500nH/N<sup>2</sup> MIN test conditions: 1KHz, 0.25V, 1Ts

4. Characteristic Curve





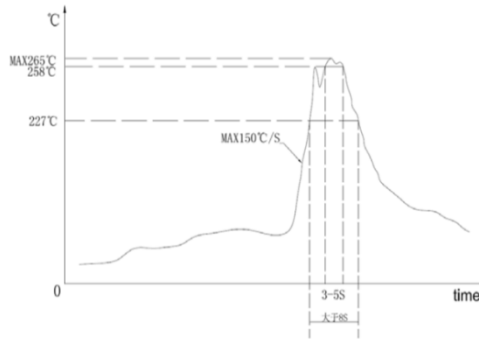
材质 MATERIAL: GH15 (以下参数由 T25\*15\*10 标准测试磁环测得)

5. Material Properties

特性 CHARACTERISTICS		单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu_i$	25℃	-	15000±25%
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25℃	mT	380
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25℃	mT	90
矫顽力 COERCIVE FORCE $H_c$	25℃	A/m	4.4
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$	0.15
居里温度 CURIE TEMP. $T_c$	-	℃	>110
密度 DENSITY $d$	-	kg/m <sup>3</sup>	4.95×10 <sup>3</sup>
相对损耗因数 Relative loss factor $\tan \delta/\omega$	-	*10 <sup>-6</sup>	≤7 (10KHz)
减落因数 Disaccommodation DF	1-10min	*10 <sup>-6</sup>	≤2
相对温度系数 Relative temperature coefficient ( $\alpha\mu r$ )	-30~20℃	*10 <sup>-6</sup> .1/K	-0.5~1.5
	20~70℃		-0.5~1.5

Wave soldering:

1. The curve for:

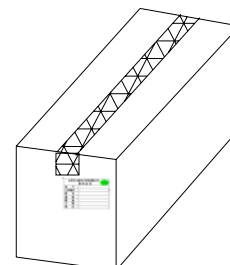
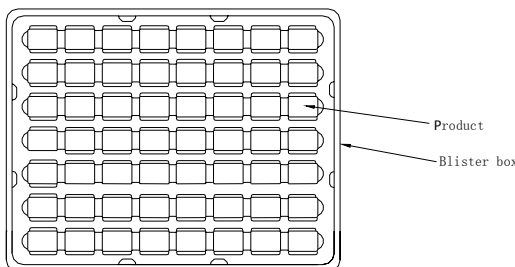


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

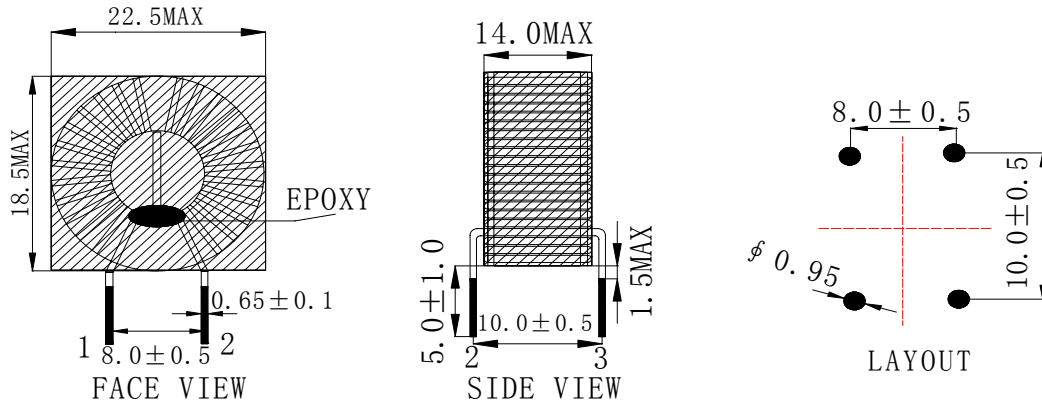
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



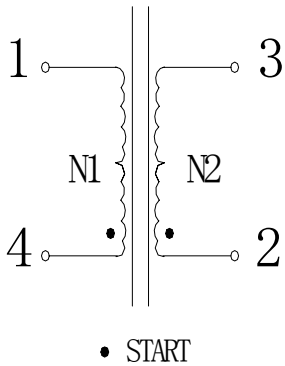
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(1-4=2-3)	15.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L(1-4)=(2-3)	300uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 1.0KV/5mA/3sec	CC2672A
		COIL-CORE	AC 1.0KV/5mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R(1-4=2-3)	100.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np/Ns	47.5:47.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	16.0	±0.4	
D2	12.0	±0.4	
H	8.0	±0.3	
R	3.0	±0.2	

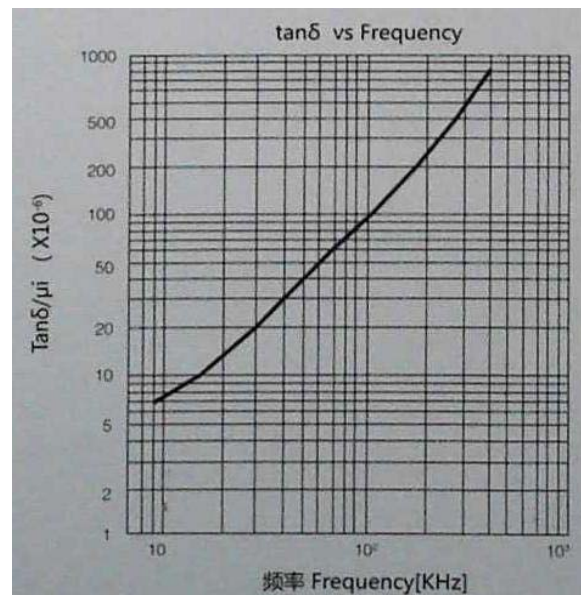
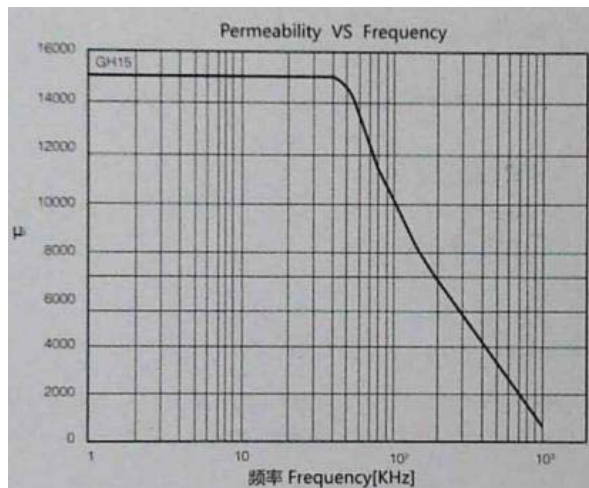
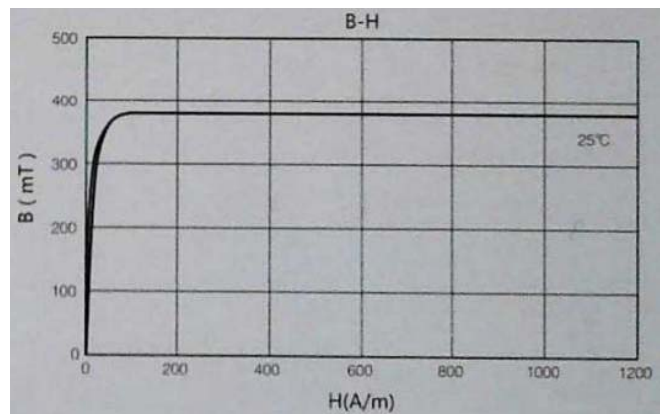
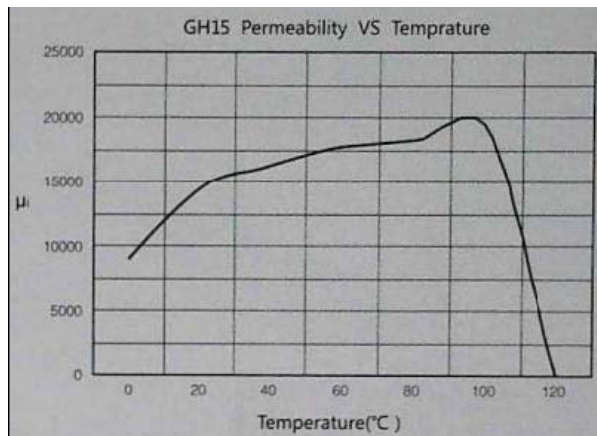
2. Effective Parameter

project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	43.96	16	703

3. The performance requirements

AL= 6700nH/N<sup>2</sup> MIN test conditions: 1KHz, 0.25V, 100Ts

4. Characteristic Curve



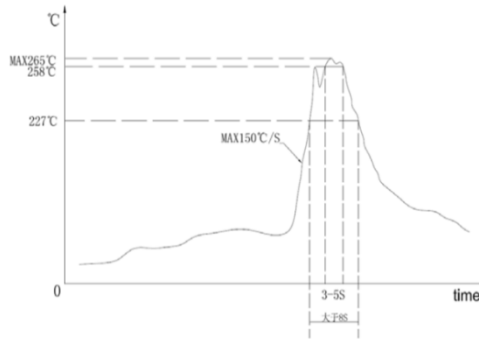
材质 MATERIAL: GH15 (以下参数由 T25\*15\*10 标准测试磁环测得)

5. Material Properties

特性 CHARACTERISTICS		单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu_i$	25℃	-	15000±25%
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25℃	mT	380
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25℃	mT	90
矫顽力 COERCIVE FORCE $H_c$	25℃	A/m	4.4
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$	0.15
居里温度 CURIE TEMP. $T_c$	-	℃	>110
密度 DENSITY $d$	-	kg/m <sup>3</sup>	4.95×10 <sup>3</sup>
相对损耗因数 Relative loss factor $\tan \delta/\omega$	-	*10 <sup>-6</sup>	≤7 (10KHz)
减落因数 Disaccommodation DF	1-10min	*10 <sup>-6</sup>	≤2
相对温度系数 Relative temperature coefficient ( $\alpha_{\mu r}$ )	-30~20℃	*10 <sup>-6</sup> .1/K	-0.5~1.5
	20~70℃		-0.5~1.5

Wave soldering:

1. The curve for:

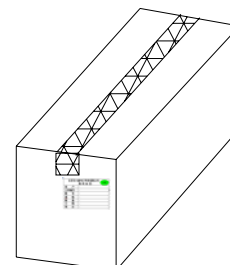
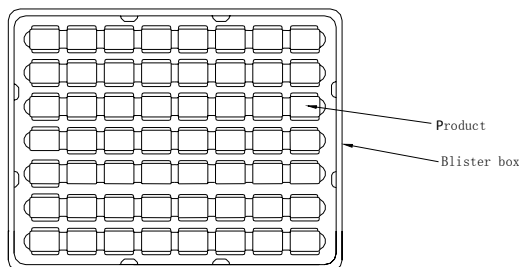


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

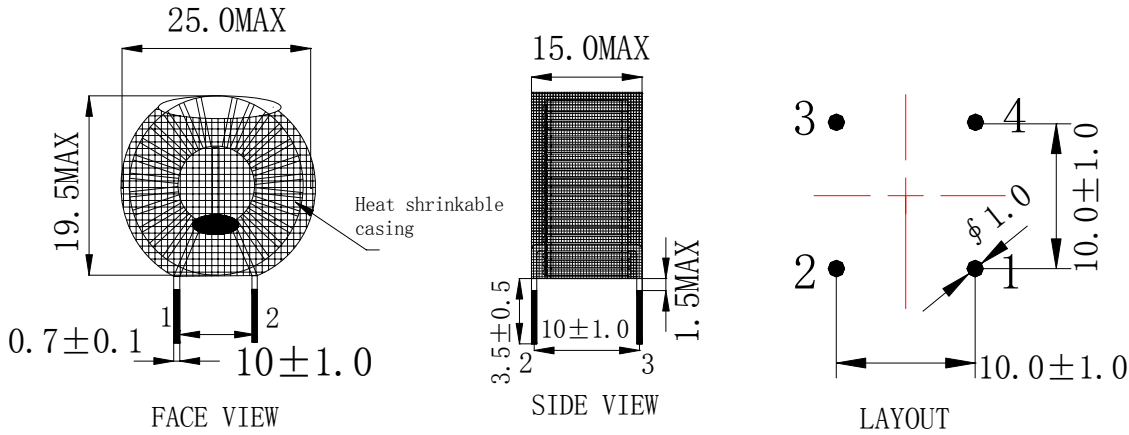
Packing Recognition Standard:

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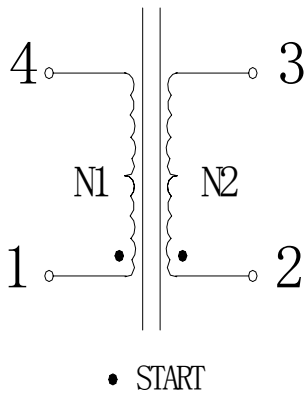
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2=4-3)	20.0mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L (1-2)=(4-3)	300uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 1.0KV/5mA/3sec	CC2672A
		COIL-CORE	AC 1.0KV/5mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2=4-3)	100.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	N <sub>p</sub> /N <sub>s</sub>	35.5:35.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

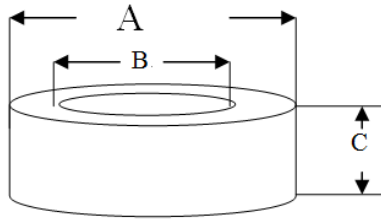
- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to-125℃.
- ◆ Storage temperature: -25to+85℃.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.

## Magnetic Core Size And Electrical Properties:

## 1、Dimensions (mm)



Black:	A:18.0±0.4	B:10.0±0.4	C:7.0±0.3
Green:	A:18.2±0.4	B:9.8±0.5	C:7.2±0.3

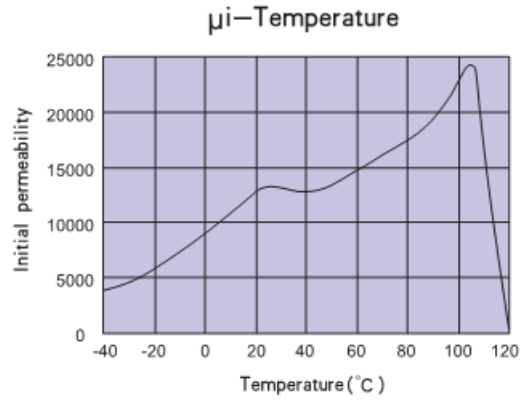
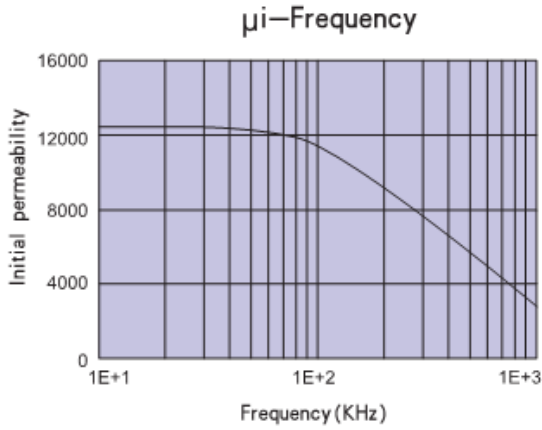
## 2、Electrical properties

ITEM	SPEC	TEST CONDITIONS	TESTING EQUIPMENT
Inductance	>7.0	1KHZ ,0.25V ,1TS,25±3℃内阻 30Ω	TH2816B
HI-POTTEST	2.5KV	2.5KV/3mA/3s	DS2660

## 3、材质特性 MATERIAL CHARACTERISTICS (材质 MATERIAL:R10K)

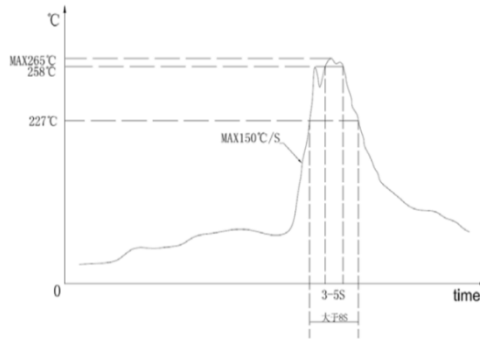
特性 CHARACTERISTICS	单位 UNIT	特性值 VALUE
初始磁导率 INITIAL PERMEABILITY	$\mu_i$	10000 ± 25% (10KHZ)
饱和磁通密度 SATURATION MAGNETIC FULUX DENSITY(H=1194/m)	25℃	mT
	100℃	mT
剩余磁通密度 REMANENT FLUX DENSITY	Br	25℃ mT
矫顽力 COERCIBE FORCE	Hc	25℃ A/m
比损耗因子 RELATIVE LOSS FACTOR	Tab $\delta / \mu_i$	X10 <sup>-6</sup>
初始磁导率比温度系数 RELATIBETEMPFACTOR	$\alpha_{\mu ir}$	X10 <sup>-6</sup> /℃
居里温度 DURIE TEMP	Tc	℃
电阻率 ELECTRICAL RESISTIVITY	$\rho$	Ω.m
密度 DENSITY	d	Kg/m <sup>3</sup>
有效长度	Le	mm
有效截面积	Ae	mm <sup>2</sup>
有效体积	Ve	mm <sup>3</sup>
Weight		g

4、Characteristic Curve



Wave soldering:

1. The curve for:

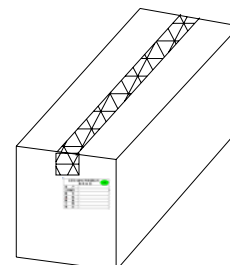
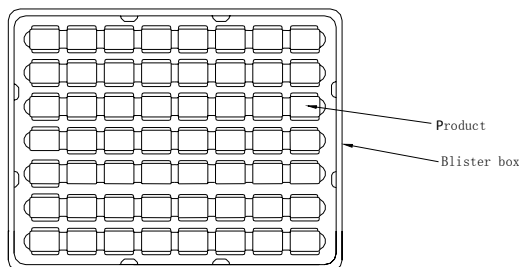


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

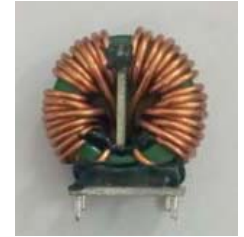
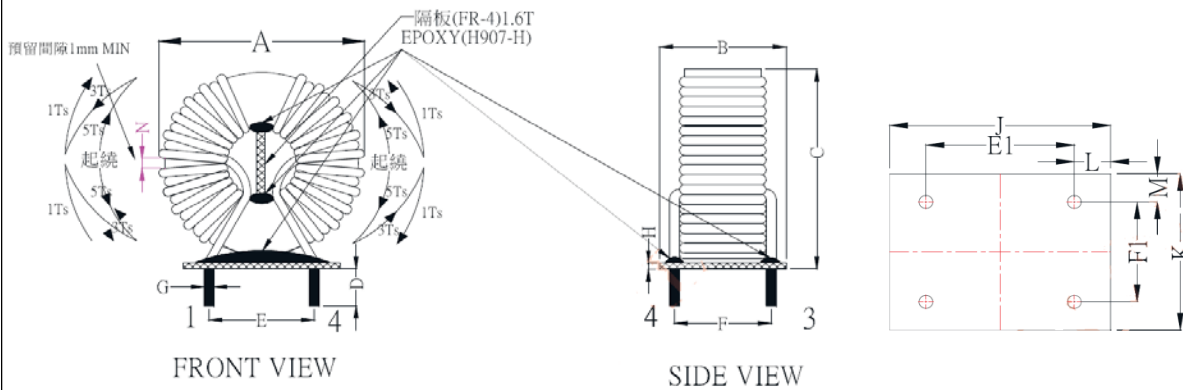
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



Size of outer box: length \* width \* height (inner size)

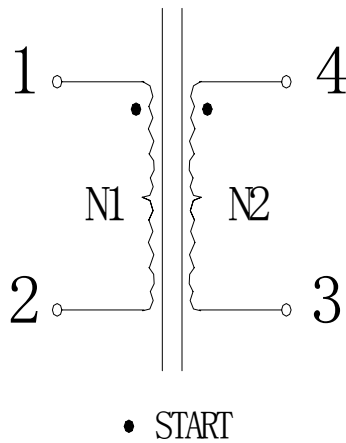
## Dimension Diagram (Unit:mm):



Product Pictures

ITEM	A	B	C	D	E	E1	F	F1	G	H	J	K	L	M	N
UNIT:mm	30MAX	15.5MAX	30MAX	3.3±0.5	16±0.3	16±0.1	11±0.3	11±0.1	1.3±0.1	1.6±0.1	19±0.3	14±0.3	1.5±0.1	1.5±0.1	1.0MIN

## Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(1-2=4-3)	1.9mH-3.54mH	CH1062 10KHz 0.05V
2	Inductance Balance Value	L(1-2)=(4-3)	3.0mH±30%	TH2816B 10KHz 1.0V
	LEAKAGE INDUCTANCE	LK(1-2)	35uH MAX	TH2816B 10KHz 1.0V Shorted PIN3、4
	Q	L(1-2)=(4-3)	3.0 MIN	TH2816B 10KHz 1.0V
3	HI-POT TEST	COIL-COIL	AC 1.8KV/5mA/3sec	CC2672A
		COIL-CORE	AC 0.5KV/3mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R(1-2=4-3)	16.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np/Ns	18:18	CHEN HWA 310 or EQU

## Performance Characteristics And Application Fields:

### Features:

- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

### Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are T5.0 to T200.0
- ◆ Suitable for video equipment, office automation equipment, audio equipment, communication equipment, measuring instruments, etc.



Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
D1	25.0	±0.4	
D2	15.0	±0.4	
H	10.0	±0.3	
R	3.0	±0.2	

2. Effective Parameter

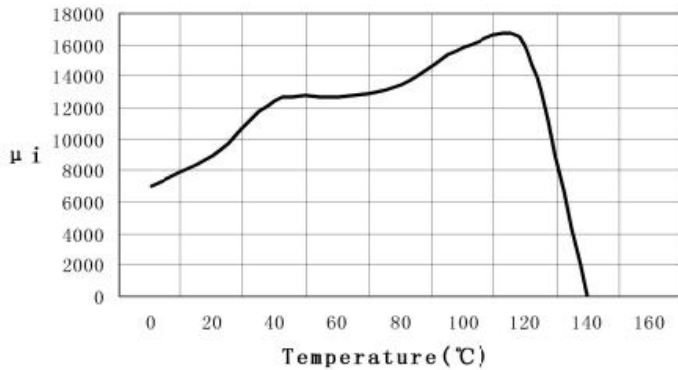
project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	60.18	48.92	2944.4

3. The performance requirements

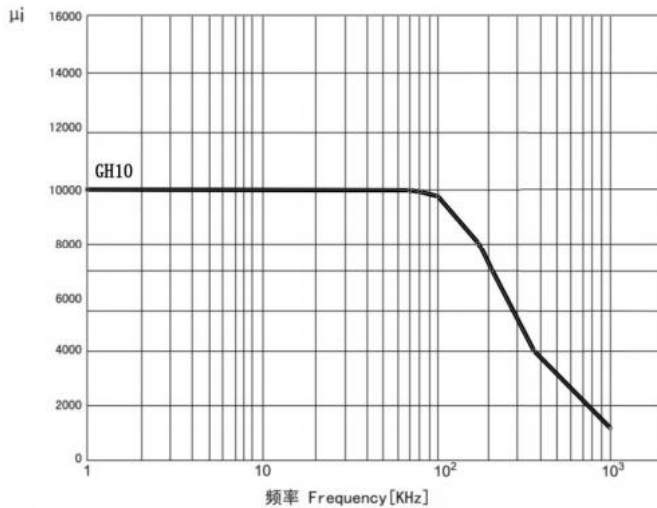
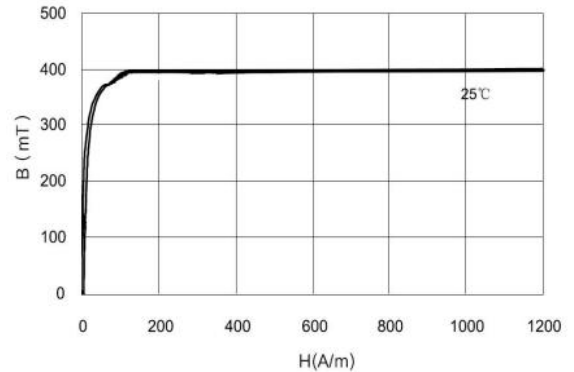
AL= 3.0mH ± 30% test conditions: 10KHz, 1V, 18Ts

4. Characteristic Curve

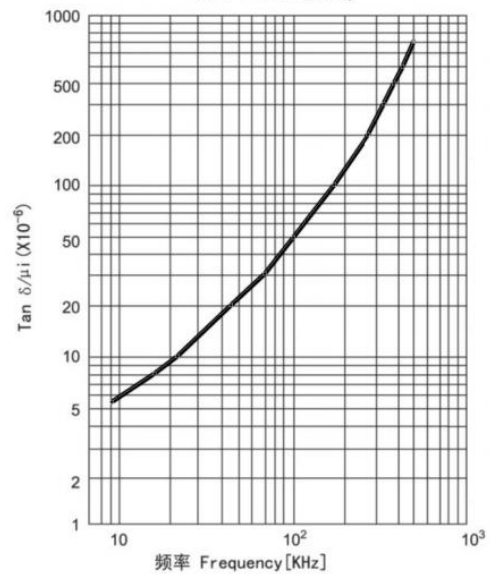
GH10 Permeability VS Temperature



B-H



tan δ VS Frequency



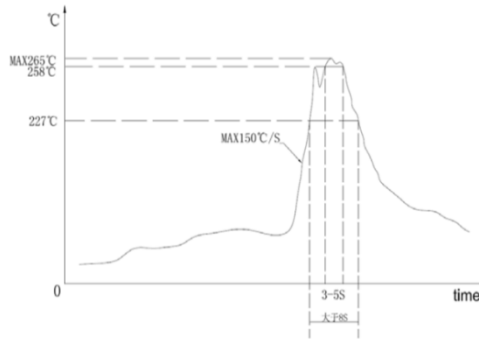
材质 MATERIAL: GH10 (以下参数由 T25\*15\*10 标准测试磁环测得)

5. Material Properties

特性 CHARACTERISTICS		单位 UNIT	特性质 VALUE
初始磁导率 INITIAL PERMEABILITY $\mu_i$	25℃	-	10000±25%
饱和磁通密度 SATURATION MAGNETIC FLUX DENSITY(H=1194A/m) $B_s$	25℃	mT	400
剩磁(H=1194A/m) REMANENT FLUX DENSITY $B_r$	25℃	mT	90
矫顽力 COERCIVE FORCE $H_c$	25℃	A/m	6
电阻率 ELECTRICAL RESISTIVITY $\rho$	-	$\Omega \cdot m$	0.15
居里温度 CURIE TEMP. $T_c$	-	℃	>120
密度 DENSITY $d$	-	kg/m <sup>3</sup>	4.9×10 <sup>3</sup>
相对损耗因数 Relative loss factor $\tan \delta/\omega$	-	*10 <sup>-6</sup>	≤7 (10KHz)
减落因数 Disaccommodation DF	1-10min	*10 <sup>-6</sup>	≤2
相对温度系数 Relative temperature coefficient ( $\alpha_{\mu r}$ )	-30~20℃	*10 <sup>-6</sup> .1/K	-0.5~1.5
	20~70℃		-0.5~1.5

Wave soldering:

1. The curve for:

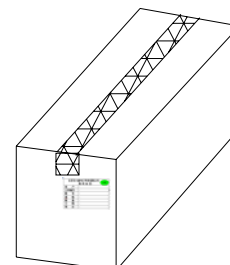
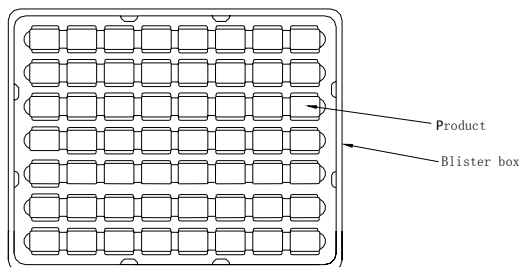


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

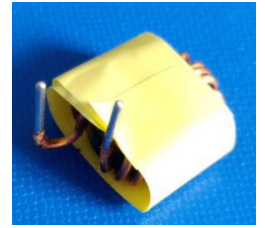
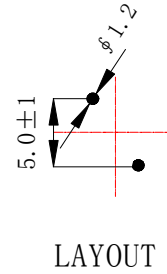
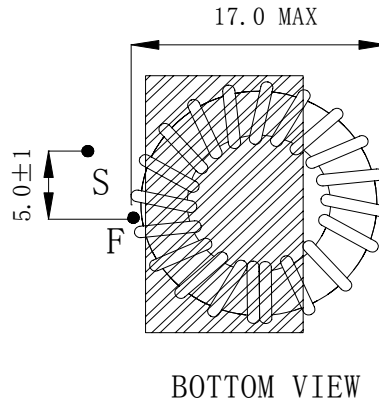
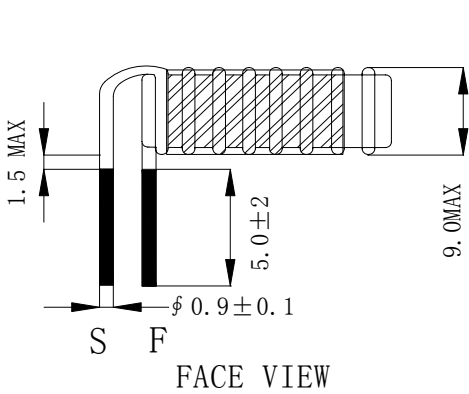
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



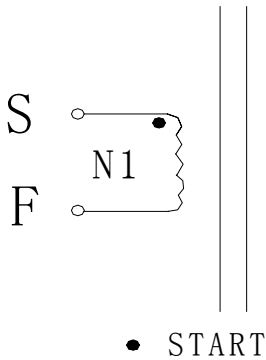
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	40uH±15%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L(-)	uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST			CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V 100MΩ MIN	CHEN HWA 19053 or EQU
5	DC RESISTANCE	R(S-F)	25.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	27.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
OD	12.7	+0.76	
ID	7.62	-0.63	
HT	4.75	+0.76	

2. Effective Parameter

project	Le(cm)	Ae(cm <sup>2</sup> )	Ve(cm <sup>3</sup> )
parameter	3.12	0.114	0.356

3. The performance requirements

AL=5.6uH ± 8% test conditions: 1KHz, 0.3V, 9.5Ts

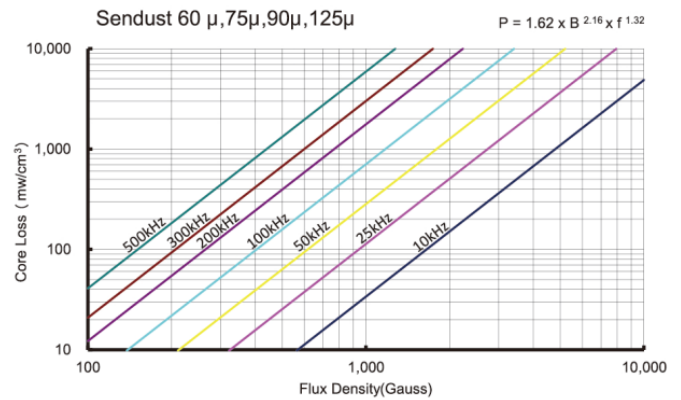
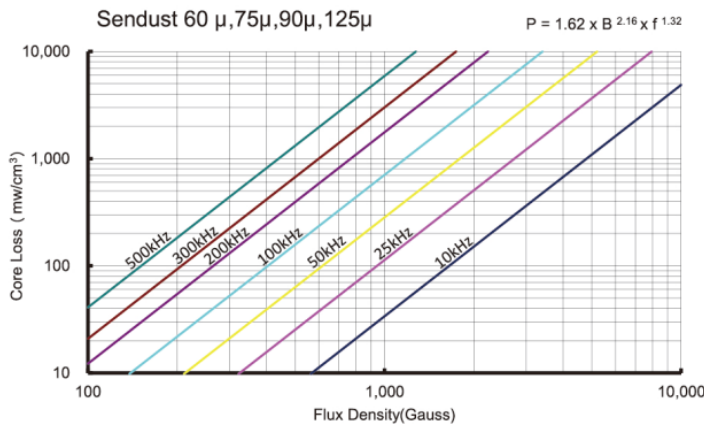
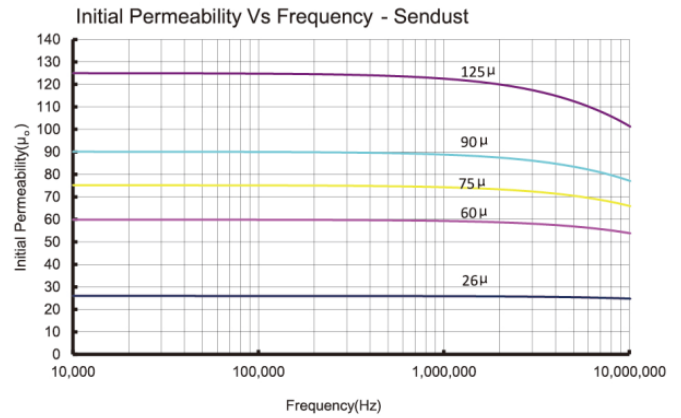
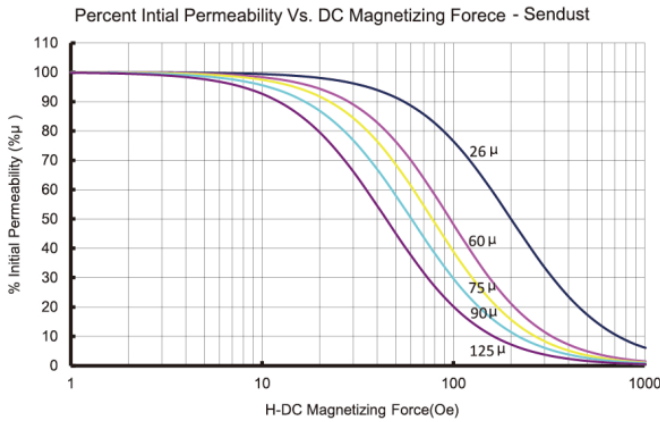
4. Material Properties

Material: Sendust Powder

Permeability: 125

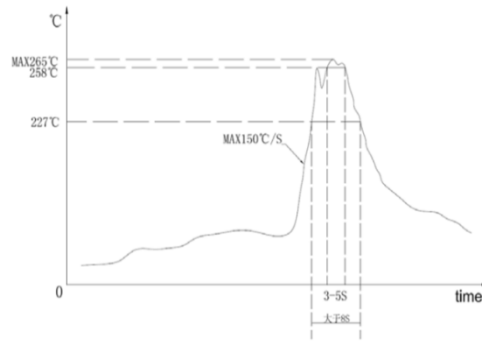
Curie temperature: 500

5. Characteristic Curve



**Wave soldering:**

1. The curve for:

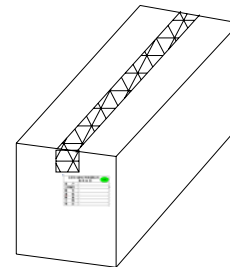
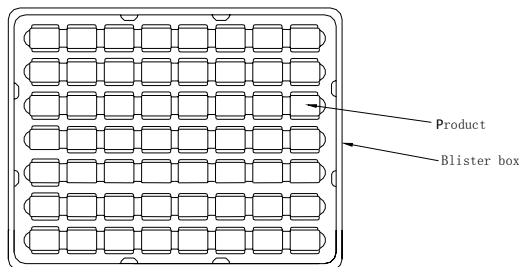


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

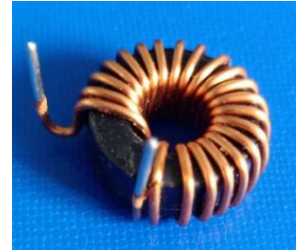
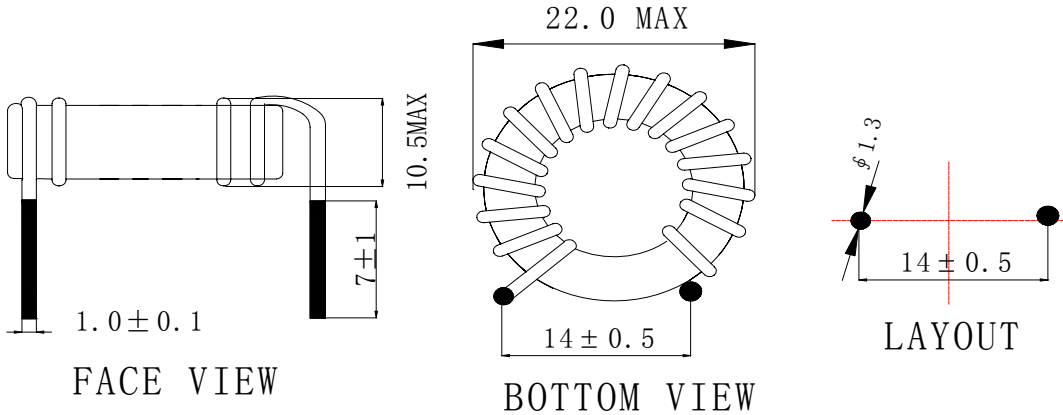
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



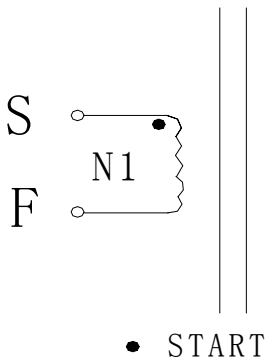
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	38uH ±15%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L( - )	uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-CORE	AC 0.5KV/3mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R(S-F)	20mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	21TS	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

## Magnetic Core Size And Electrical Properties:

### 1. Dimensions (mm)

project	Center value	The tolerance	Brief:
OD	17.27	+0.76	
ID	9.65	-0.63	
HT	6.35	+0.76	

### 2. Effective Parameter

project	Le(cm)	Ae(cm <sup>2</sup> )	Ve(cm <sup>3</sup> )
parameter	4.14	0.232	0.961

### 3. The performance requirements

AL= 8.9uH ± 10% test conditions: 1KHz, 0.3V, 9.5Ts

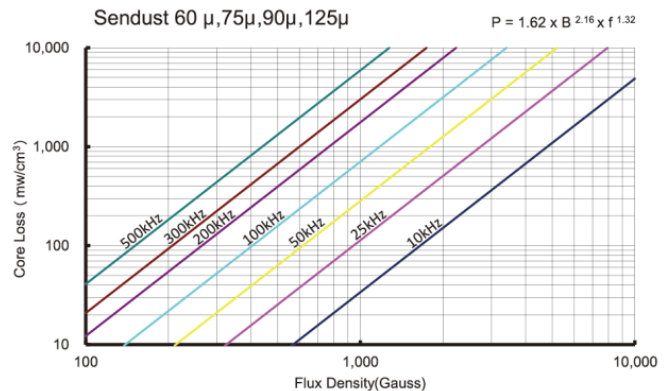
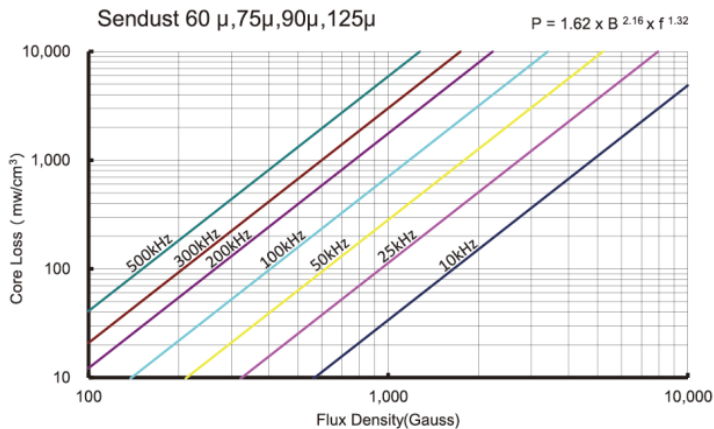
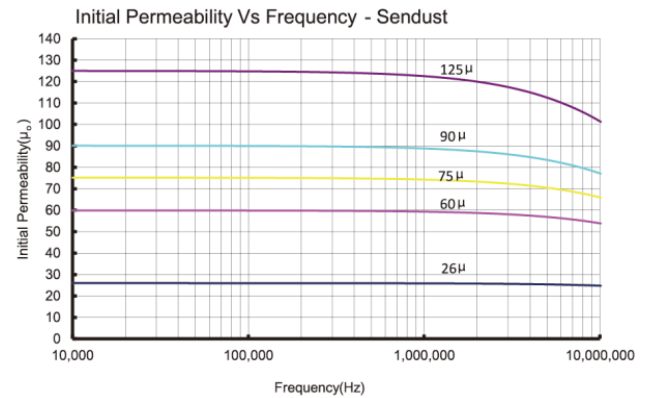
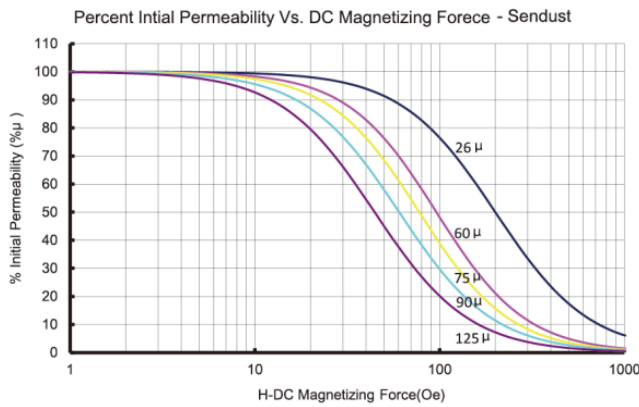
### 4. Material Properties

Material: Sendust

Permeability: 125

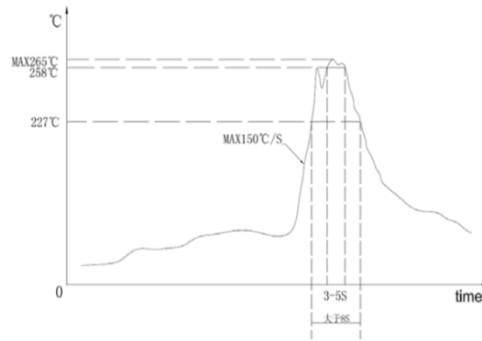
Curie temperature: 500

### 5. Characteristic Curve



**Wave soldering:**

1. The curve for:

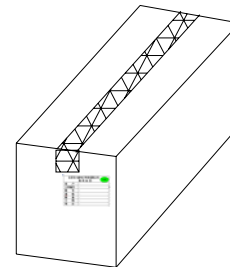
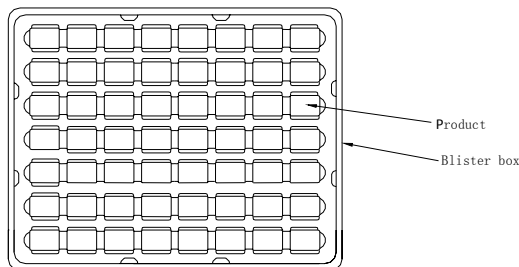


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

**Packing Recognition Standard:**

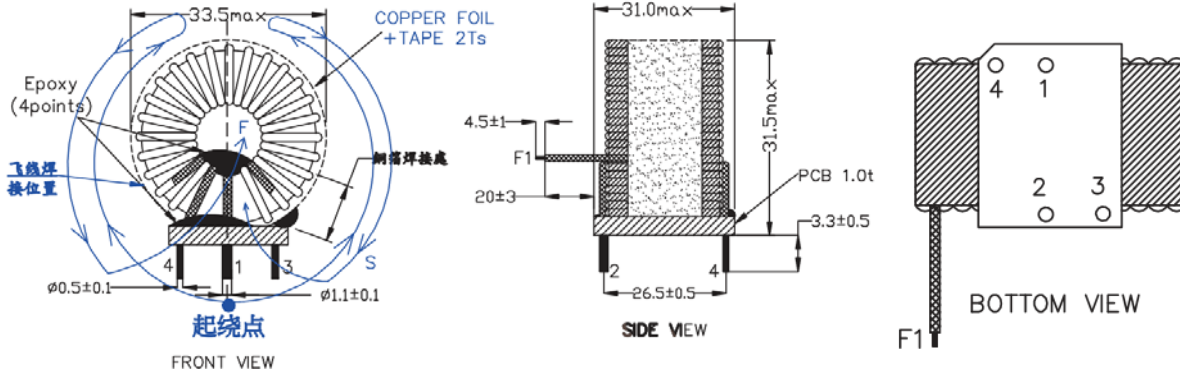
Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



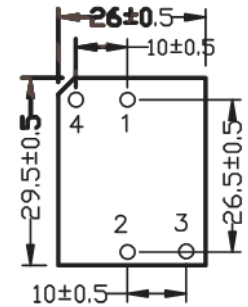
Size of outer box: length \* width \* height (inner size)



Dimension Diagram (Unit:mm):

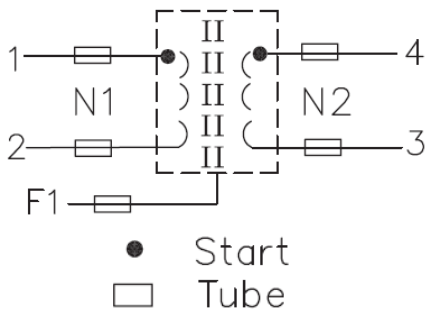


Product Pictures



PCB layout

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2)	405uH±15%	CH1062 100KHz 1V
2	Q	L (1-2)	40 MIN	TH2816B 100KHz 1V
3	HI-POT TEST	COIL-COIL	AC 2500V/5mA/3sec	CC2672A
		COIL-CORE	AC 2500V/5mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2)	85.0mΩ MAX	CHEN HWA 502BC or EQU
		R (4-3)	17.0mΩ MAX	
6	TURNS RATIO	Np/Ns	52:2	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

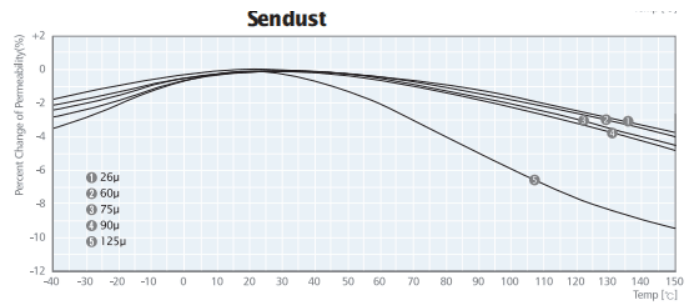
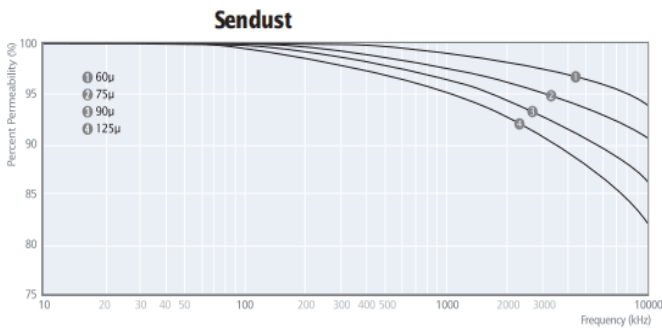
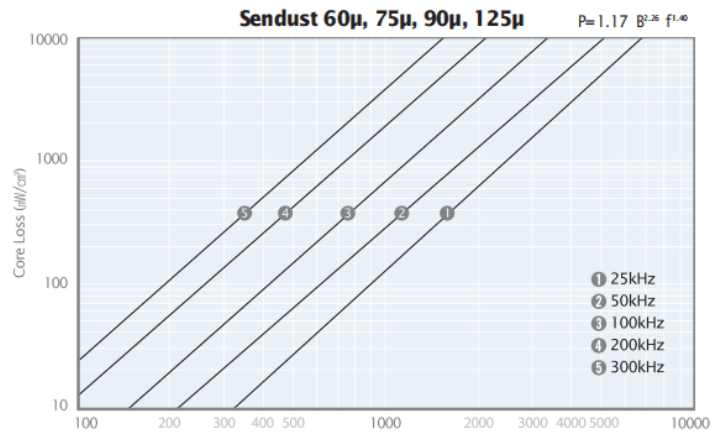
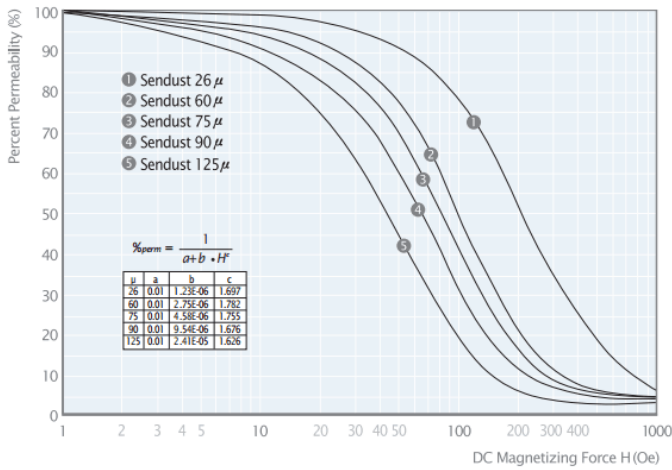
1. Dimensions (mm)

project	Center value	Brief:
A	≦ 26.92	
B	≧ 14.73	
C	≦ 11.18	

2. The performance requirements:

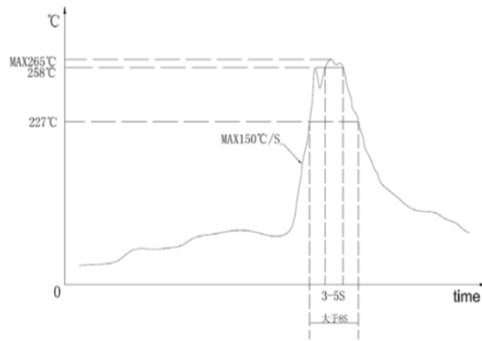
AL= 69-81nH/N<sup>2</sup> test conditions: 100KHz, 1V, 50Ts

3. Characteristic Curve



**Wave soldering:**

1. The curve for:

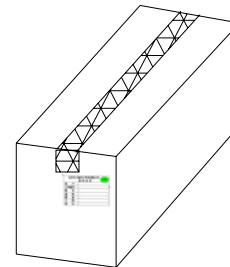
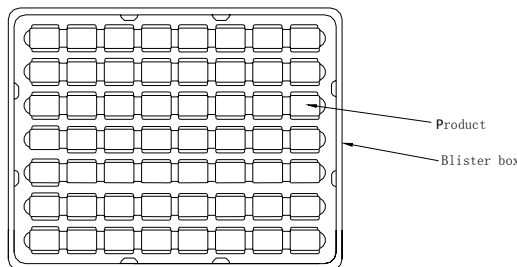


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

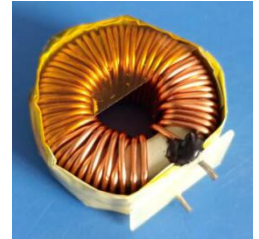
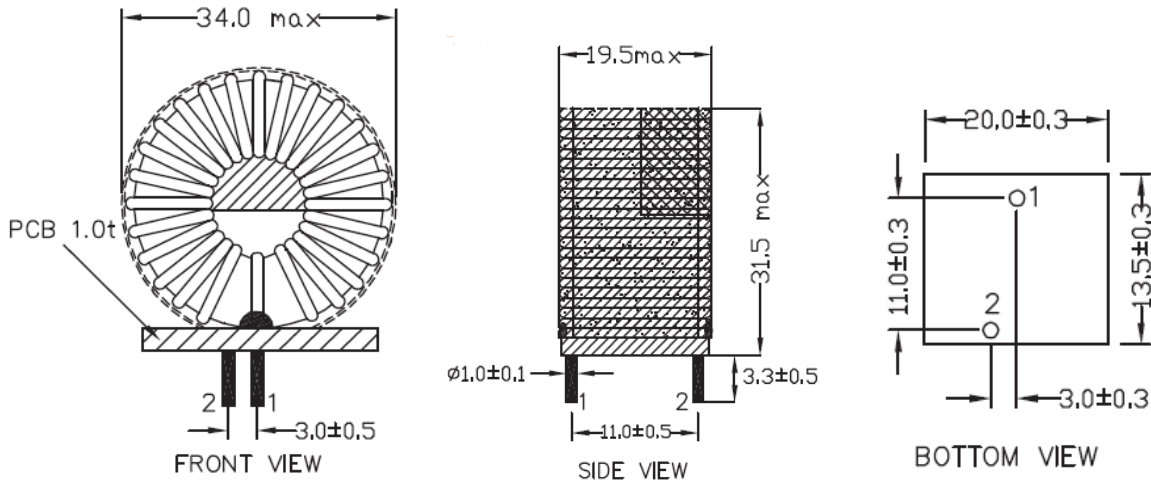
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



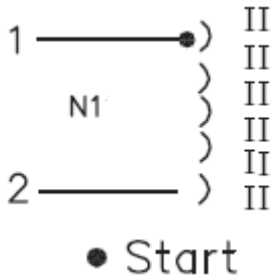
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(1-2)	316uH±10%	CH1062 100KHz 1V
2	Q	L(1-2)	66 MIN	TH2816B 100KHz 1V
3	HI-POT TEST	COIL-CORE	AC 2500V/5mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R(1-2)	75.0mΩ MAX	CHEN HWA 502BC or EQU
6	URNS RATIO	Np	65	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

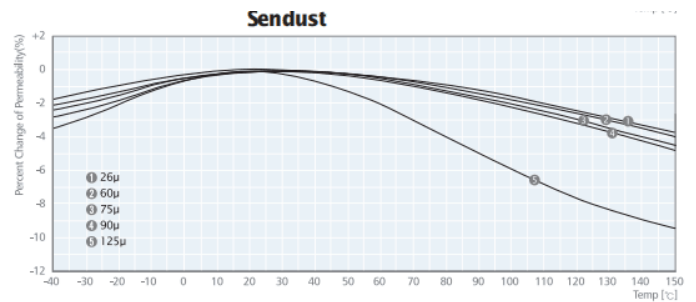
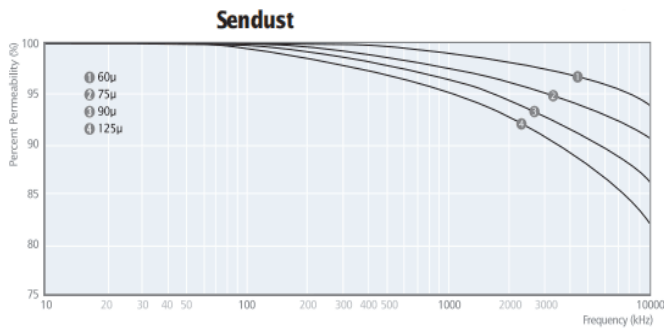
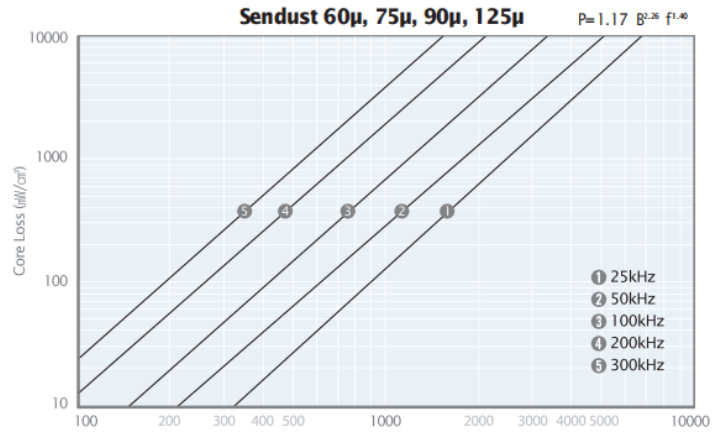
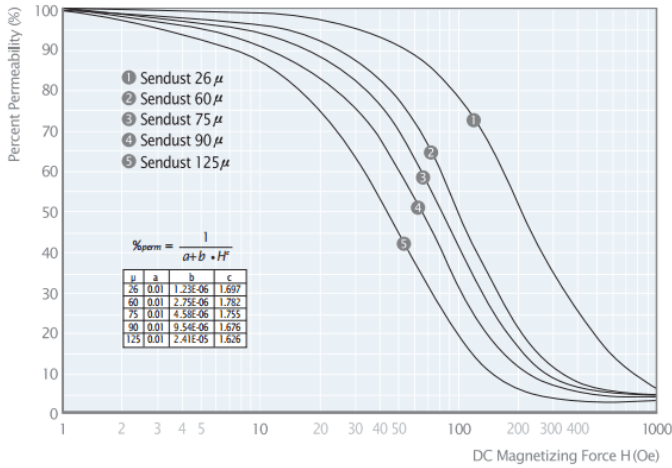
1. Dimensions (mm)

project	Center value	Brief:
A	≦ 26.92	
B	≧ 14.73	
C	≦ 11.18	

2. The performance requirements:

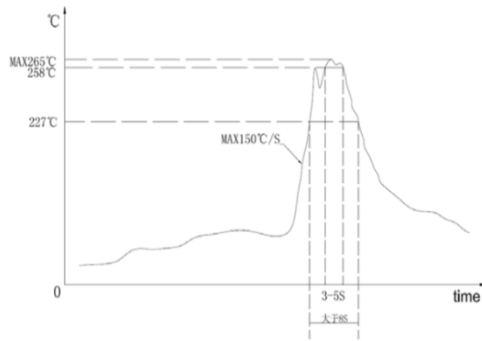
AL= 69-81nH/N<sup>2</sup> test conditions: 100KHz, 1V, 50Ts

3. Characteristic Curve



**Wave soldering:**

1. The curve for:

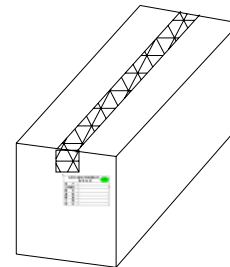
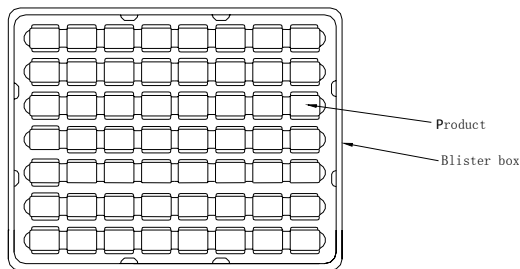


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

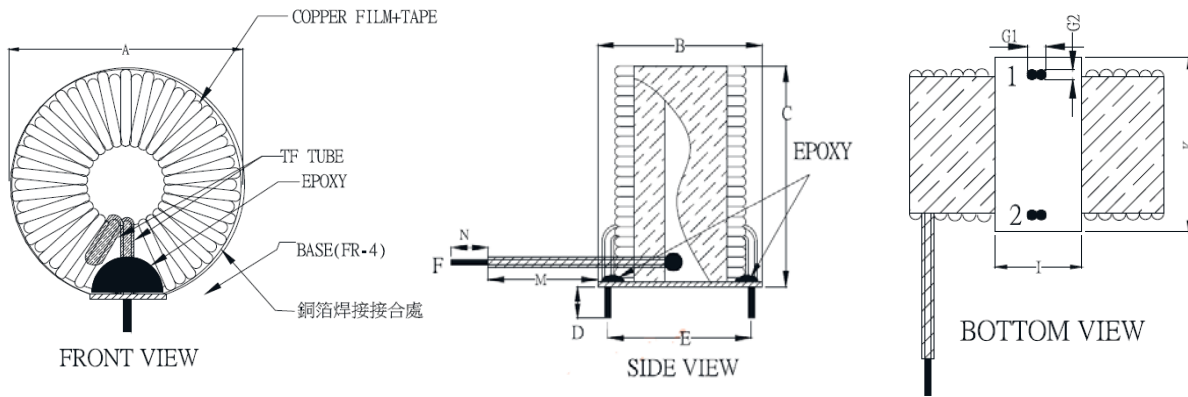
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



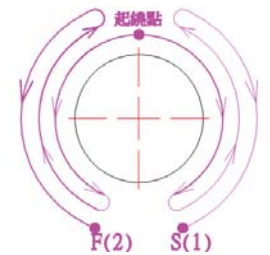
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):

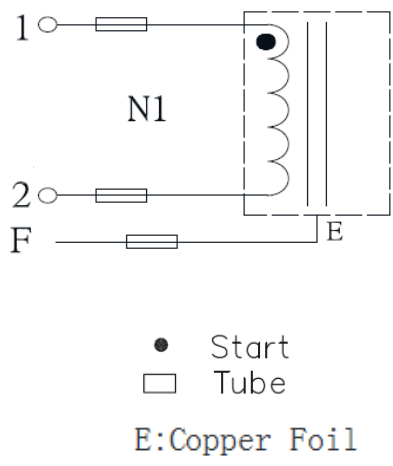


Product Pictures

ITEM	A	B	C	D	E	G1	G2
UNIT:MM	33.5MAX	31.5MAX	32.0MAX	3.3±0.5	26.5±0.5	2.5MAX	1.3MAX



Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(1-2)	400uH±15%	CH1062 100KHz 1V
2	Q	L(1-2)	35 MIN	TH2816B 100KHz 1V
3	HI-POT TEST	COIL-CORE	AC 2500V/5mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R(1-2)	70.0mΩ MAX	CHEN HWA 502BC or EQU
6	URNS RATIO	Np	52	CHEN HWA 310 or EQU

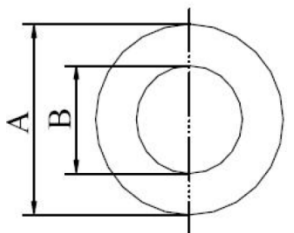
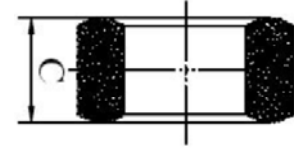
Performance Characteristics And Application Fields:

**Product features:**  
 ◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

**Application field:**  
 ◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

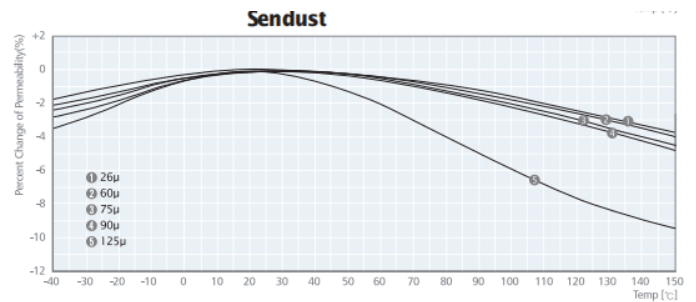
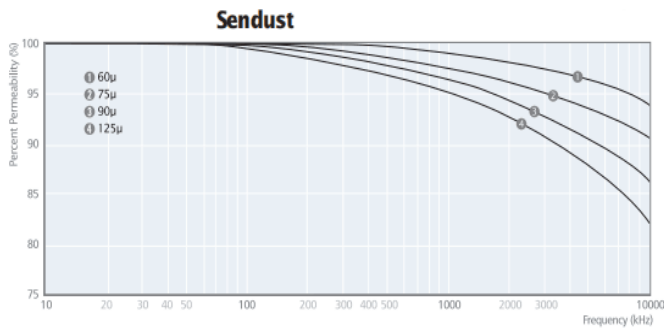
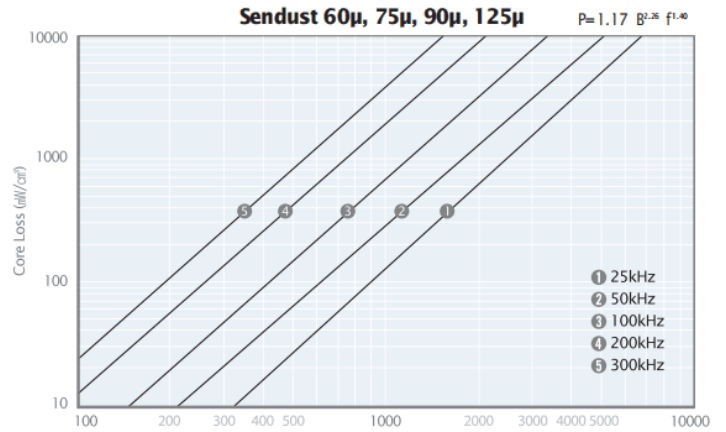
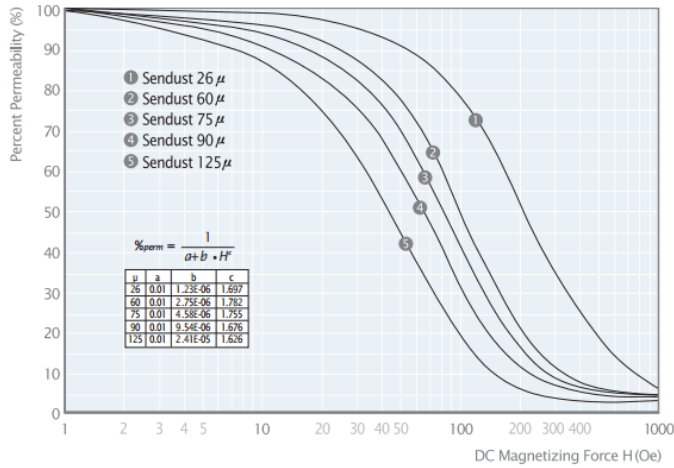
1. Dimensions (mm)

project	Center value		Brief:
A	≦ 26.92		
B	≧ 14.73		
C	≦ 11.18		
			

2. The performance requirements:

AL= 69-81nH/N<sup>2</sup> test conditions: 100KHz, 1V, 50Ts

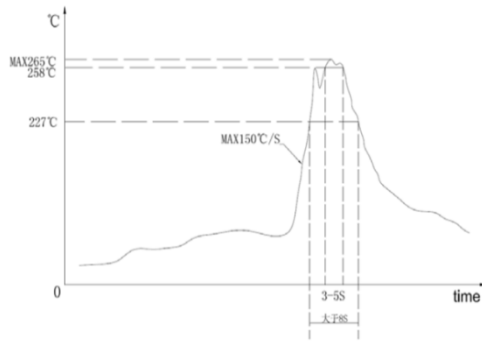
3. Characteristic Curve





**Wave soldering:**

1. The curve for:

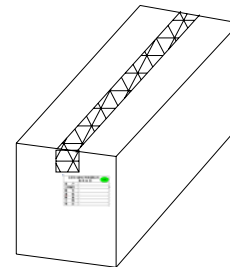
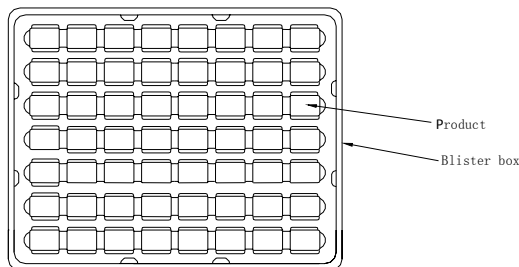


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

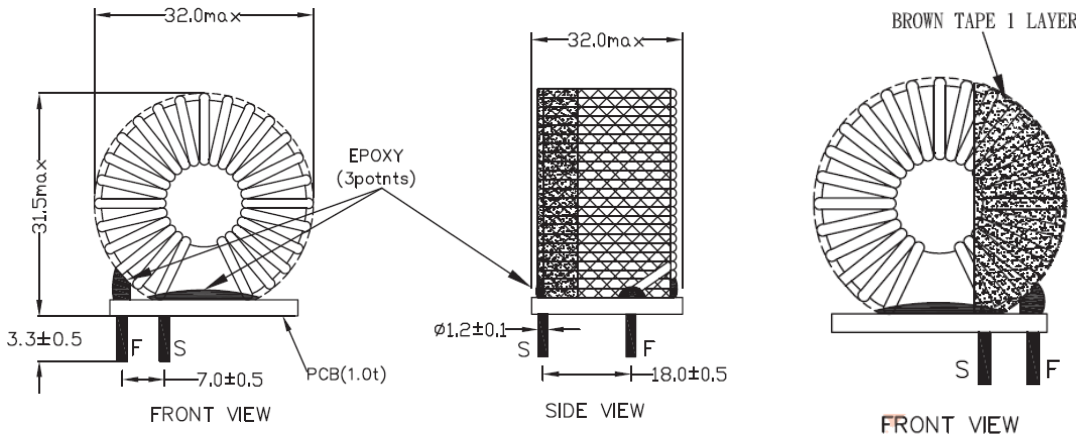
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.

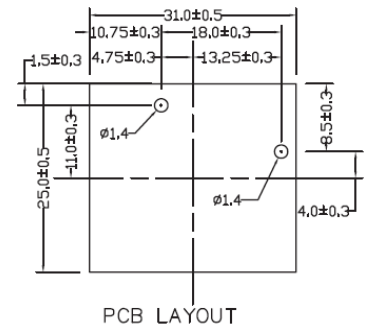


Size of outer box: length \* width \* height (inner size)

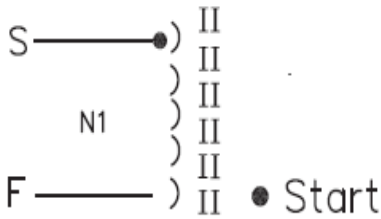
Dimension Diagram (Unit:mm):



Product Pictures



Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L(S-F)	405.6uH±10%	CH1062 100KHz 1V
2	Q	L(S-F)	80 MIN	TH2816B 100KHz 1V
3	HI-POT TEST	COIL-CORE	AC 2500V/5mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R(S-F)	90.0mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	52	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ High frequency choke coil, Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

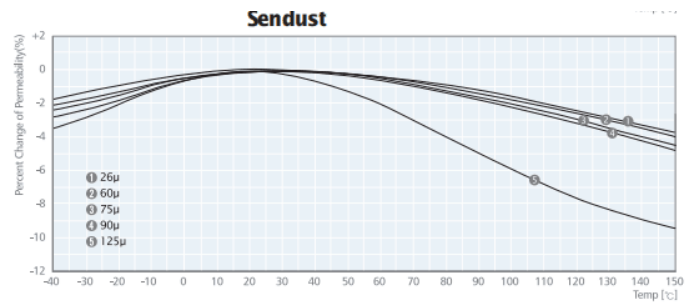
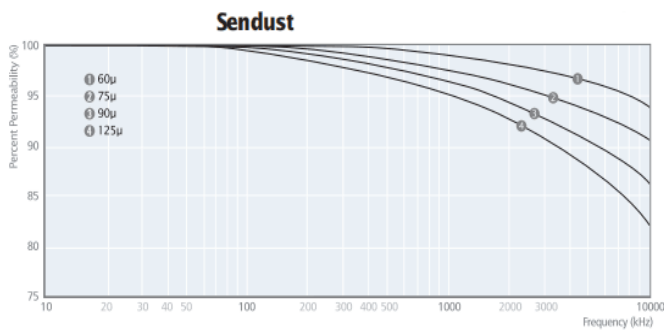
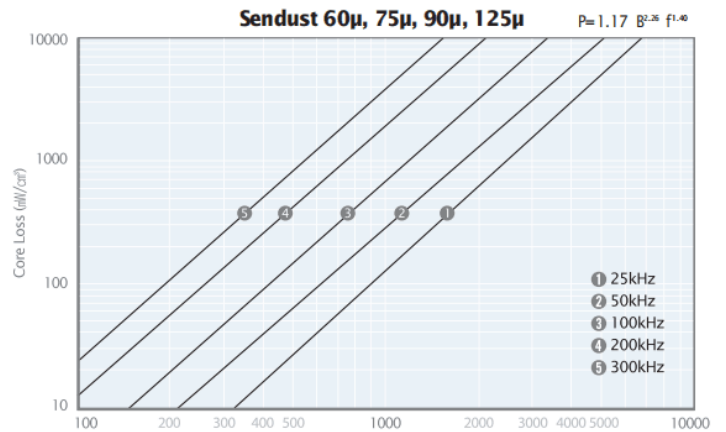
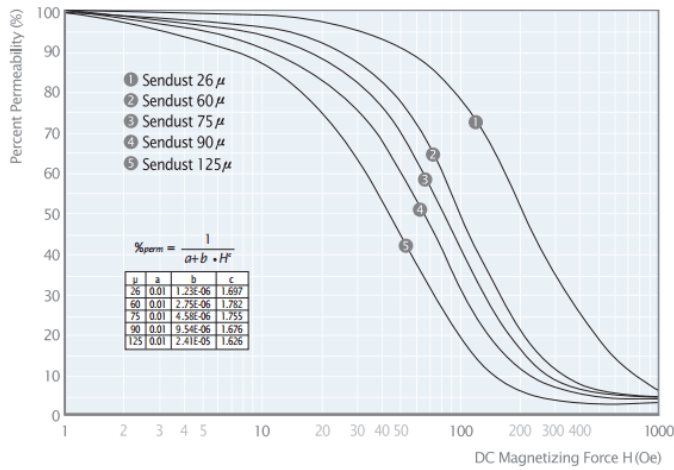
1. Dimensions (mm)

project	Center value	Brief:
A	≦ 26.92	
B	≧ 14.73	
C	≦ 11.18	

2. The performance requirements:

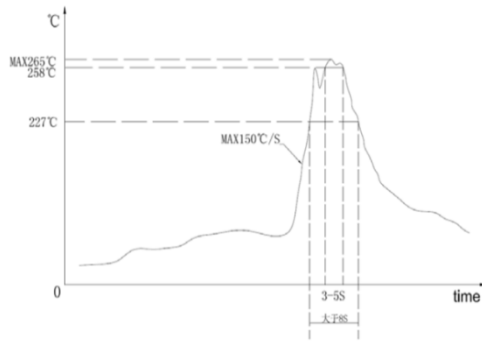
AL= 69-81nH/N<sup>2</sup> test conditions: 100KHz, 1V, 50Ts

3. Characteristic Curve



**Wave soldering:**

1. The curve for:

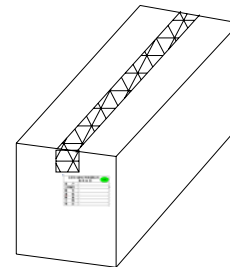
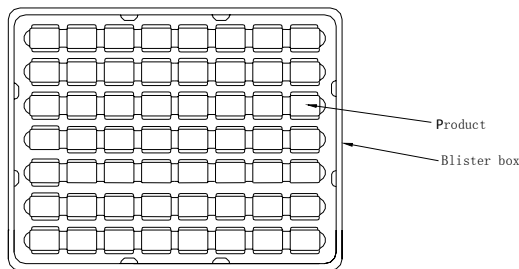


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

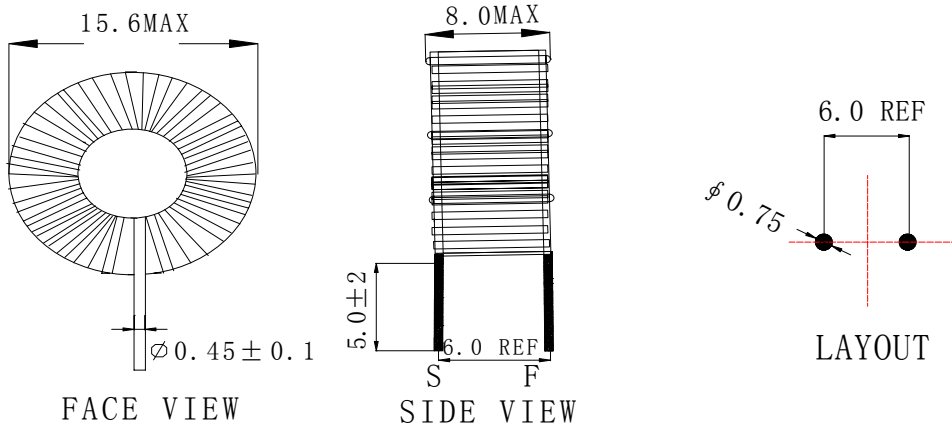
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



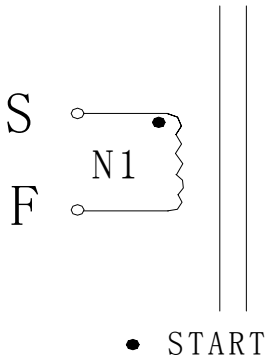
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION&INSTRUMENT
1	INDUCTANCE	L(S-F)	120uH ±15%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L( - )	uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-CORE	AC 0.5KV/3mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R( - )	mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	58	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

**Product features:**

- ◆ Ring type iron powder core inductance; Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

**Application field:**

- ◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
OD	12.7	±0.5	
ID	7.7	±0.5	
HT	4.83	±0.5	

2. Effective Parameter

project	Le(cm)	Ae(cm <sup>2</sup> )	Ve(cm <sup>3</sup> )
parameter	3.19	0.112	0.358

3. The performance requirements

AL= 3.3uH ± 10% test conditions: 1KHz, 0.3V, 9.5Ts

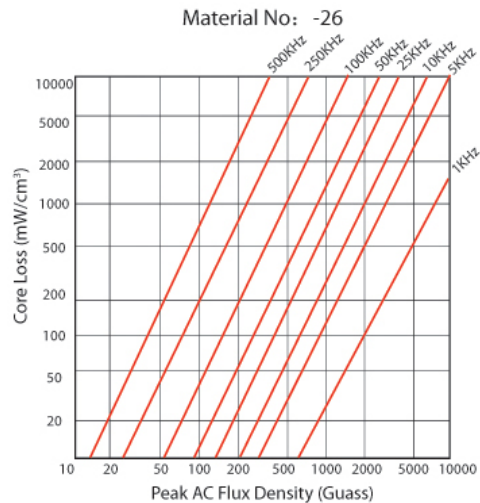
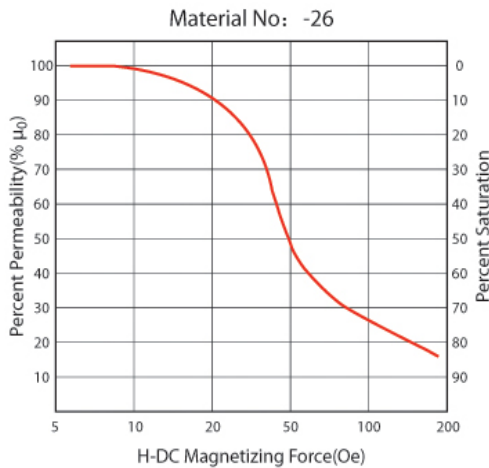
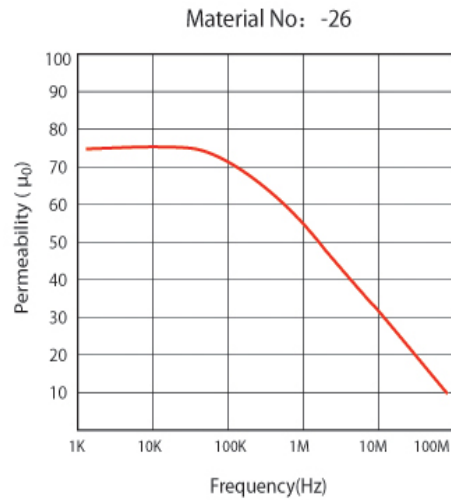
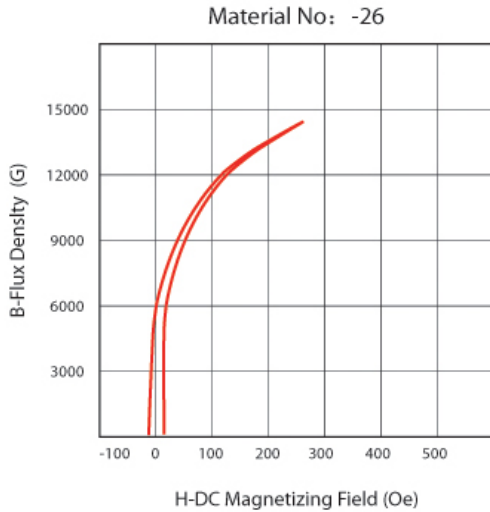
4. Material Properties

Material: Iron Powder

Permeability: 75

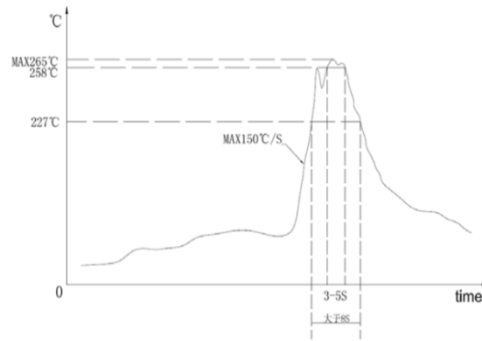
Curie temperature: 320

5. Characteristic Curve



**Wave soldering:**

1. The curve for:

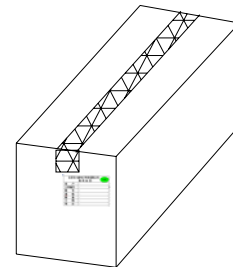
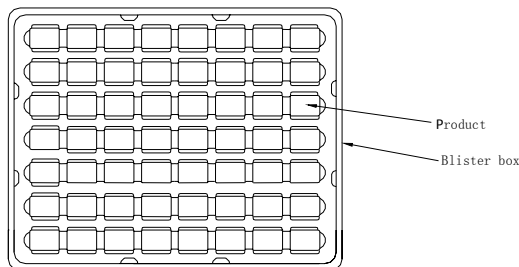


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

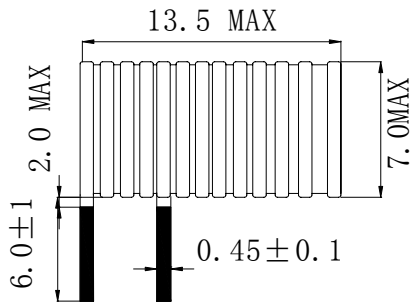
**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.

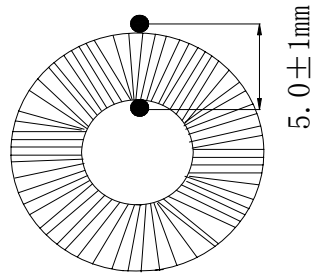


Size of outer box: length \* width \* height (inner size)

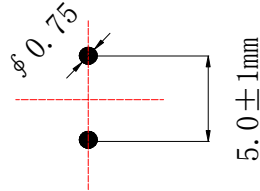
Dimension Diagram (Unit:mm):



SIDE VIEW



BOTTOM VIEW

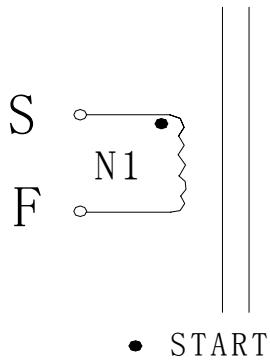


LAYOUT



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	82uH±10%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L( - )	uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-CORE	AC 0.5KV/3mA/3sec	CC2672A
4	INSULATION RESISTANCE	COIL-CORE	DC500V	CHEN HWA 19053 or EQU
			100MΩ MIN	
5	DC RESISTANCE	R(S-F)	120mΩ MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	42.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Product features:

◆ Ring type iron powder core inductance; Excellent frequency characteristics; Good attenuation characteristics; Selection of materials in accordance with the safety standards; Low magnetic leakage (magnetic loss); Working voltage: ac 100-250v; Rated current: ac 0.1a-30a; Insulation withstand voltage: ac/dc 500v-4,000v.

Application field:

◆ Television imaging equipment (e.g. television and video recorders, etc.), office automation equipment, audio equipment, communications equipment, measuring equipment, motors and their equipment with filter inductors and choke coils.



Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
OD	11.2	±0.5	
ID	5.82	±0.5	
HT	4.04	±0.5	

2. Effective Parameter

project	Le(cm)	Ae(cm <sup>2</sup> )	Ve(cm <sup>3</sup> )
parameter	2.68	0.099	0.266

3. The performance requirements

AL= 3.7uH ± 10% test conditions: 1KHz, 0.3V, 9.5Ts

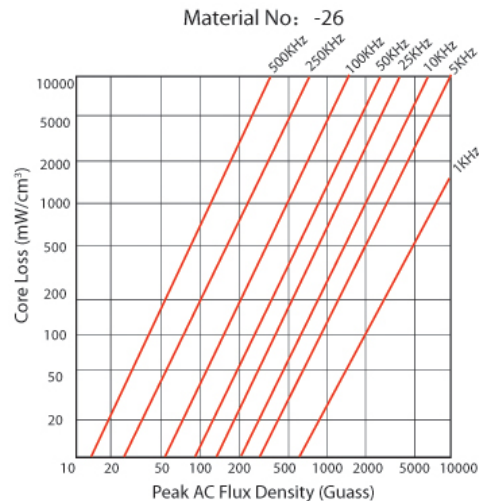
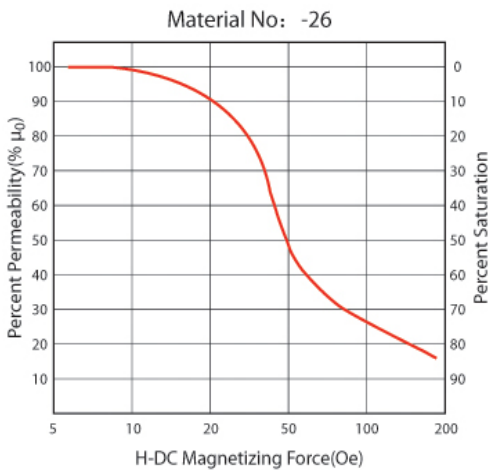
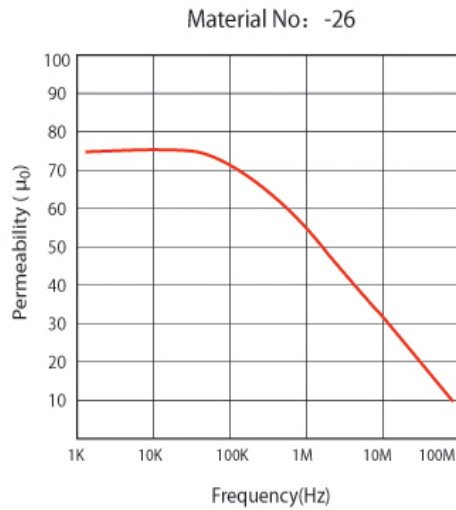
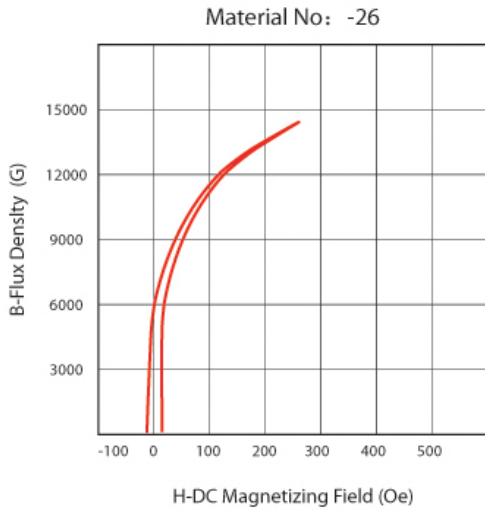
4. Material Properties

Material: Iron Powder

Permeability: 75

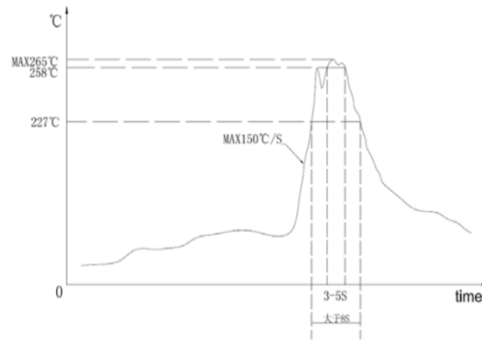
Curie temperature: 320

5. Characteristic Curve



**Wave soldering:**

1. The curve for:

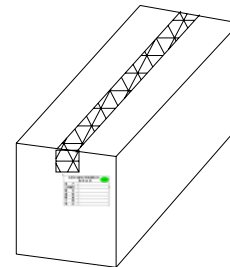
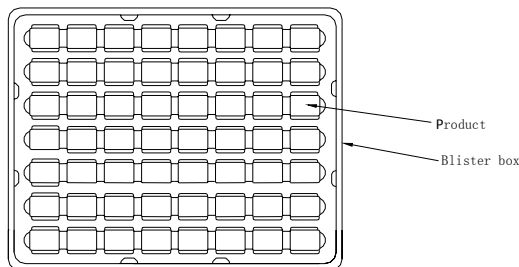


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

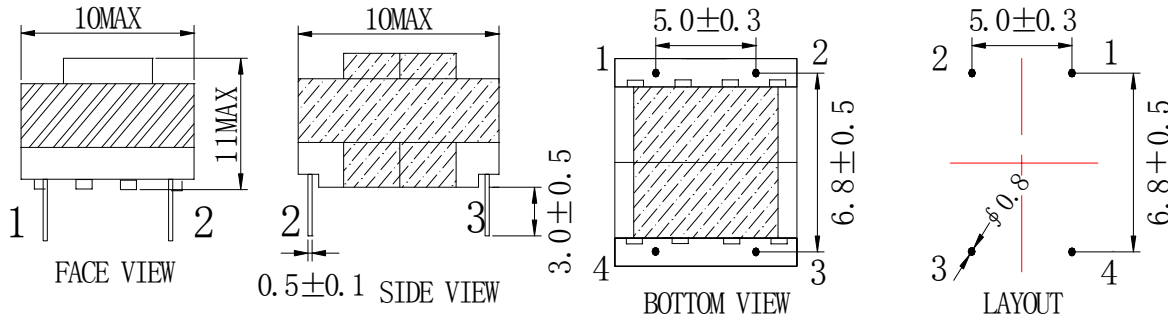
**Packing Recognition Standard:**

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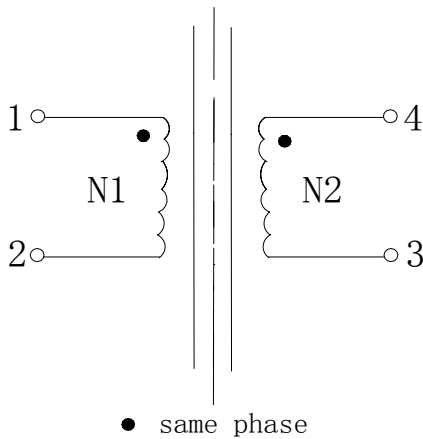
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2)	3.6mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L (1-2)=(4-3)	0.2mH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 500V/5mA/2sec	CC2672A
		COIL-CORE	AC 500V/5mA/2sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2)	2.8Ω MAX	CHEN HWA 502BC or EQU
		R (4-3)	0.15Ω MAX	
6	URNS RATIO	Np/Ns	75:1.0	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to-125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

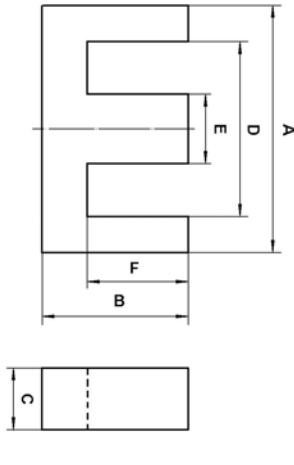
- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are EE8.3,UU9.8,UU10.5,UU16,UU20.

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance
A	8.8	±0.3
B	4.5	±0.1
C	3.9	±0.15
D	6.5	Min
E	2.0	±0.15
F	3.4	±0.1

Brief:



2. Effective Parameter

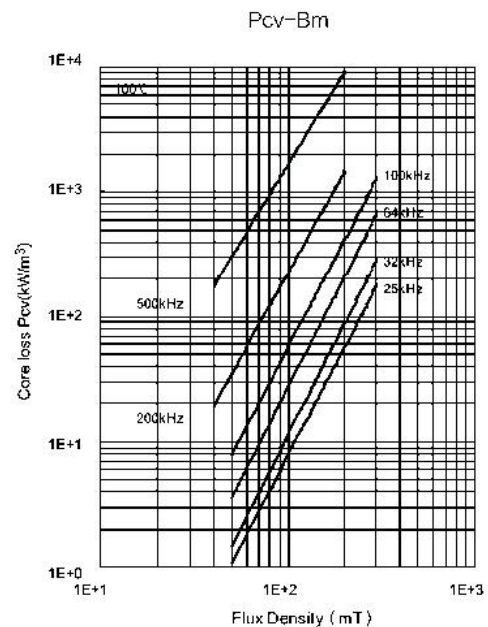
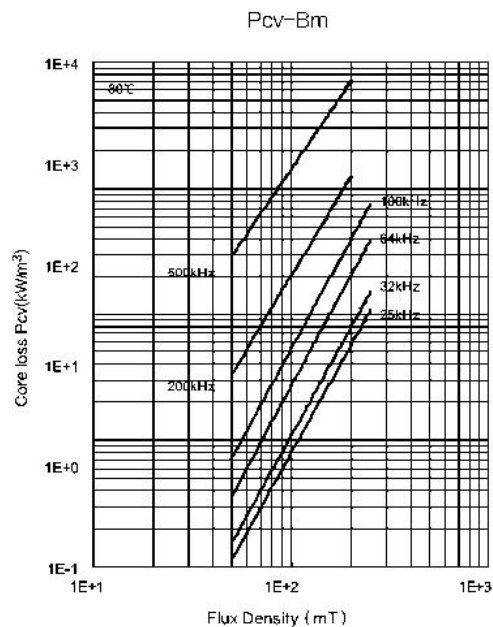
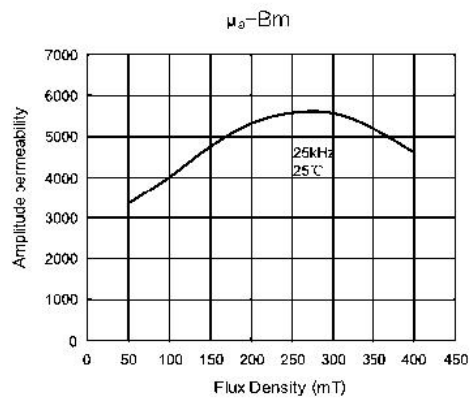
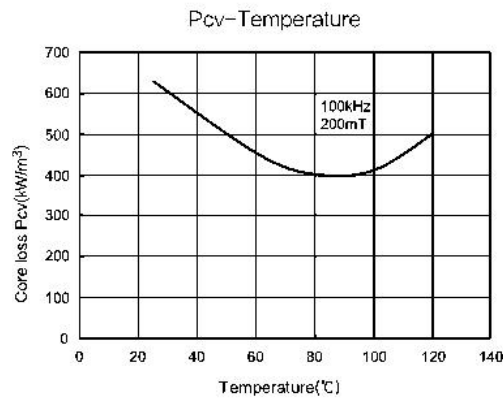
project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	21.6	8.15	176.5

3. The performance requirements

AL= 6.7mH min test conditions: 1KHz, 0.25V, 100Ts

PL ≤ 580mw/cm<sup>3</sup> max test conditions: 100KHz, 200mT, 100°C

4. Characteristic Curve



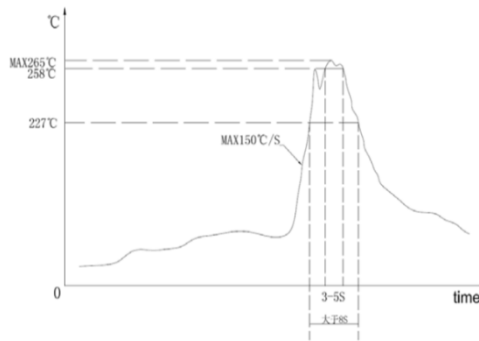
5. Material Properties

HY44 材料特性 HY44 Material Characteristics

初磁导率 <u>Initial Permeability</u>	2400±25% @25°C	密度 <u>Density</u>	4.80g/cm <sup>3</sup>
剩余磁通密度 <u>Br Remanence Flux Density</u>	110mT @25°C	矫顽力 <u>Hc Effective Coercivity</u>	13.0A/m@25°C
磁芯损耗 <u>Pc Core Loss</u> @100kHz200mT	600kW/m <sup>3</sup> @25°C	居里温度 <u>Tc</u>	≥215°C
	400kW/m <sup>3</sup> @100°C		
饱和磁通密度 <u>Bs</u> 1194A/m <u>Saturation Magnetic Flux Density</u>	510mT @25°C	电阻率 <u>ρ</u> <u>Electrical Resistivity</u>	6.5Ω·m
	390mT @100°C		
备注: 测量值是用25*15*10mm 标准样环测试 <u>Remarks: Values measured on 25*15*10 reference toroidal.</u>			

Wave soldering:

1. The curve for:

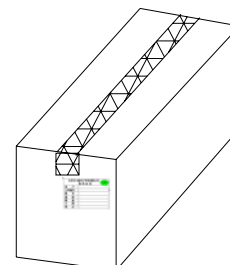
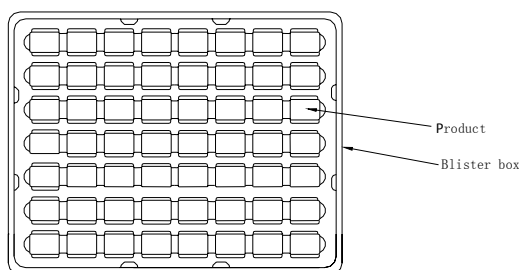


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

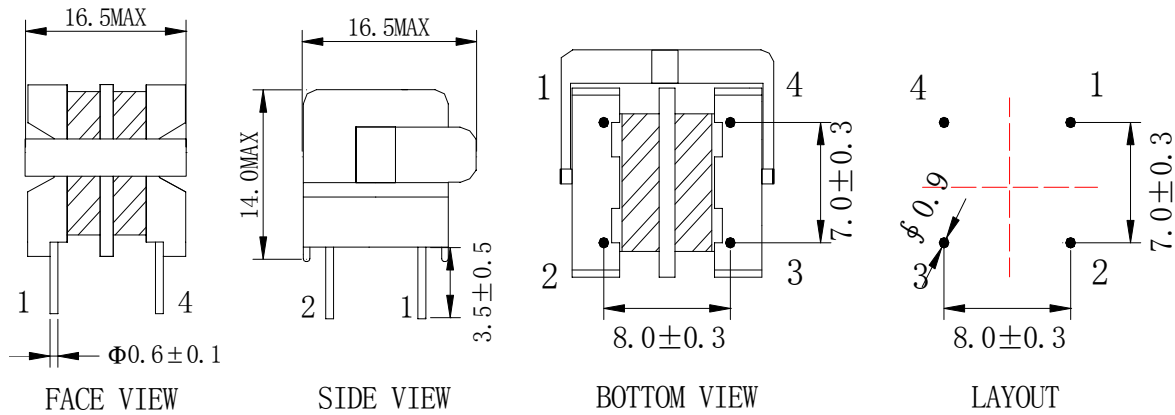
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



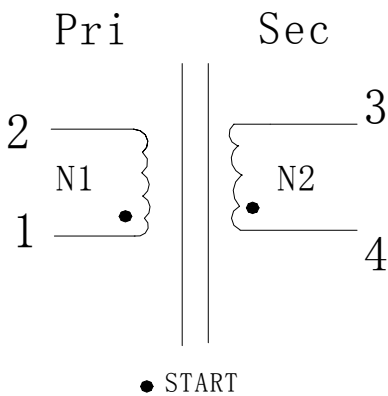
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION & INSTRUMENT
1	INDUCTANCE	L (1-2=4-3)	35mH MIN	CH1062 1KHz 0.25V
2	Inductance Balance Value	L (1-2)=(4-3)	300uH MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST	COIL-COIL	AC 1.5KV/5mA/3sec	CC2672A
		COIL-CORE	AC 1.0KV/5mA/3sec	
4	INSULATION RESISTANCE	COIL-COIL	DC500V	CHEN HWA 19053 or EQU
		COIL-CORE	100MΩ MIN	
5	DC RESISTANCE	R (1-2=4-3)	2.0Ω MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	N <sub>p</sub> /N <sub>s</sub>	120:120	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

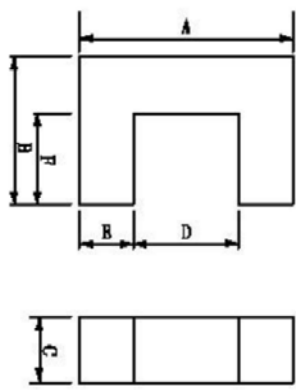
- ◆ Working frequency: 1KHZ—300KHZ.
- ◆ Working temperature: -40to+125°C.
- ◆ Storage temperature: -25to+85°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Common mode inductance is an important part of switching power supply, frequency converter, UPS power supply, electronic rectifier and other electronic equipment.
- ◆ Common common mode filter inductor models are EE8.3,UU9.8,UU10.5,UU16,UU20.

Magnetic Core Size And Electrical Properties:

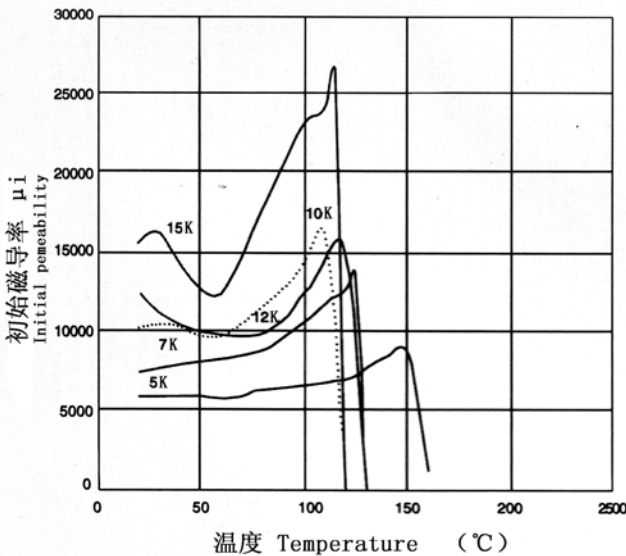
1. Dimensions (mm)

project	Center value	The tolerance	Brief: 
A	9.8	±0.2	
B	7.2	±0.2	
C	2.8	±0.2	
D	4.2	Min	
E	2.8	±0.2	
F	4.35	±0.2	

2. The performance requirements

AL= 4000nH/N<sup>2</sup> min test conditions: 1KHz, 0.3V, 100Ts

3. Characteristic Curve

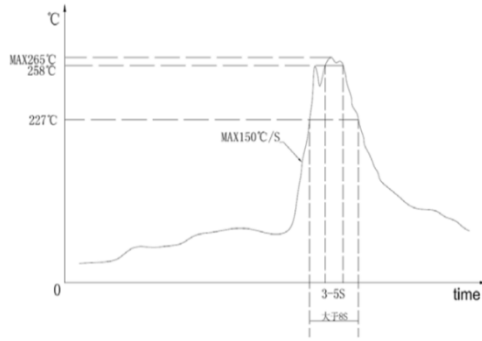


4. Material Properties

特性 Property	Unit	R15K
初始磁导率 Initial permeability		15000±25%
饱和磁通密度 Saturation flux density BS	mT	380
剩磁Remanence Br	mT	110
居里温度 Curie temperature TC	°C	≧110

**Wave soldering:**

1. The curve for:

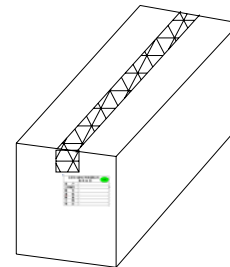
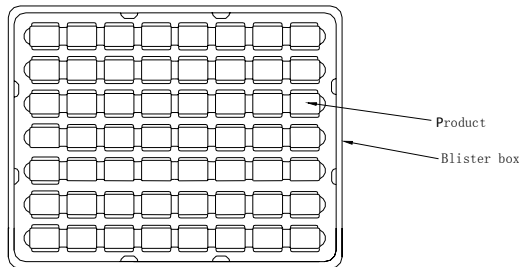


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

**Packing Recognition Standard:**

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.

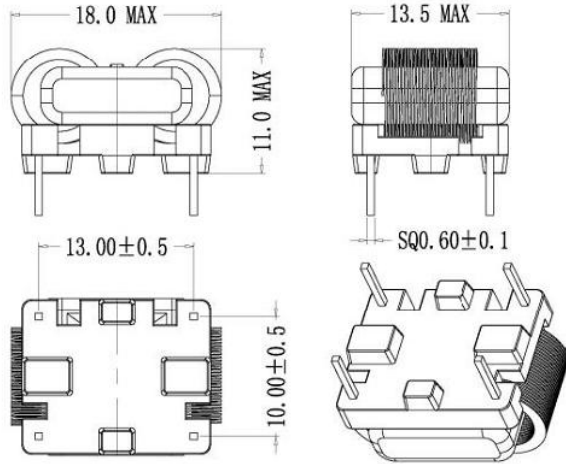


Size of outer box: length \* width \* height (inner size)



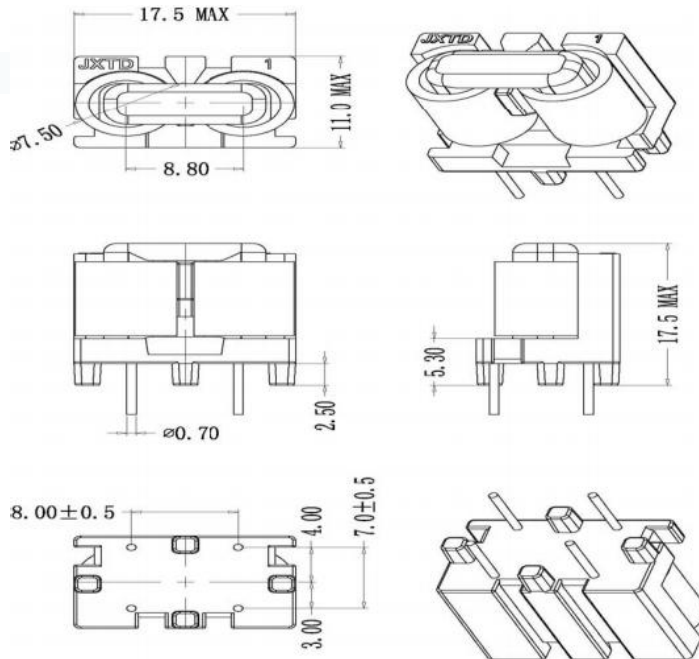
Dimension Diagram (Unit:mm):

Horizontal:



Product Pictures

Vertical:



Product Pictures

Electrical Properties: (At 25 °C):

Item no.	Inductance(mH)	Wire diameter	Dc Resistance (mΩ)	corresponding round Wire diameter	Working current (A)
SQ1212-15MH	15.0 min.	0.10*1.0-52Ts	220 Max	0.35297	1.0-1.5A
SQ1212-10MH	10.0min	0.13*1.0-47Ts	200 Max	0.401	1.5-2.0A
SQ1212-8MH	8.0 min	0.15*1.0-38Ts	180 Max	0.43	1.8-2.2A

\* Inductance test frequency: 1KHZ 0.25V

\* Other core materials and wire specifications can be used according to customer requirements

Performance Characteristics:

- ◆Magnetic core specification: SQ1212.
- ◆Fixed voltage: AC/DC 250V.
- ◆insulation resistance: 100MΩ Min. DC 500V
- ◆Storage temperature range: -25°C~+100°C
- ◆ Use square closed magnetic core, flat wire winding automatically;
- ◆ insulation voltage:AC 2.0KV 60SEC
- ◆Operating temperature range: -25°C~+125°C
- ◆Power range: 20-60W

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance	Brief:
A	13.1	Max	
B	13.6	Max	
C	5.3	Max	
D	3.9	Min	
E	7.8	Min	
F	4.4	Max	
B-F	2.7	Max	

2. Effective Parameter

project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	33	10.5	351.4

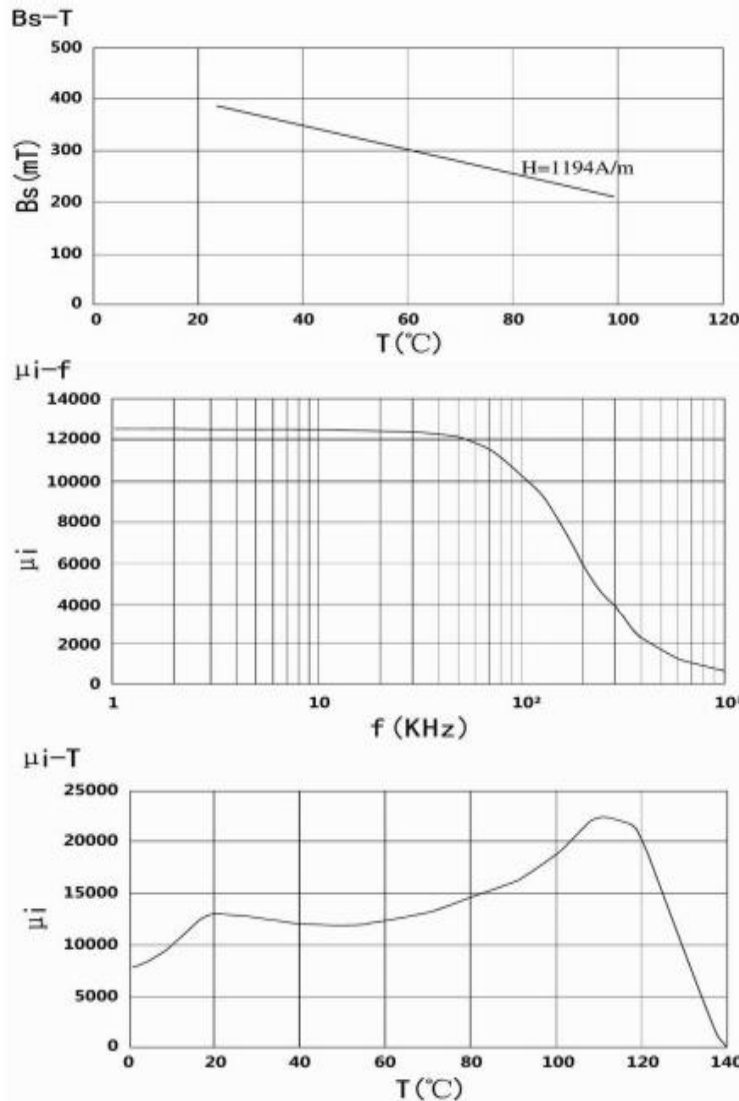
3. The performance requirements

AL= 6000min nH/N<sup>2</sup> test conditions: 1KHz, 0.3V, 1Ts

4. Electrical Characteristics

Material: HR12K  $\mu_i$  Initial Permeability: 12000 ± 25%

5. Characteristic Curve



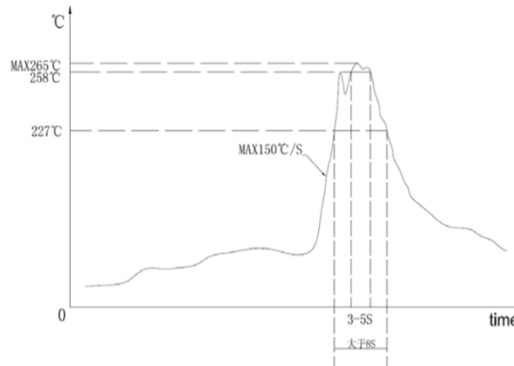
6. Material Properties

R12K

特性 Characteristics	符号 Symbol	单位 Unit	特性值 Value
初始磁导率 Initial permeability	$\mu_i$		12000 ± 25%
饱和磁通密度 (H=1194A/m) Saturation flux density	$B_s$	mT	380
比损耗因子 Relative loss factor	$\tan \delta / \mu_i$	$\times 10^{-6}$	<7(10kHz)
比温度系数 (25°C-60°C) Relative temperature coefficient	$\alpha / \mu_i$	$\times 10^{-6}/^\circ\text{C}$	-0.5~2.0
减落因子 Disaccommodation factor	DF	$\times 10^{-6}$	<2
剩磁(H=1194A/m) Remanence	$B_r$	mT	110
矫顽力(H=1194A/m) Coercivity	$H_c$	A/m	5
居里温度 Curie temperature	$T_c$	°C	$\geq 110$
电阻率 Resistivity	$\rho$	$\Omega \cdot \text{m}$	0.15
密度 Density	d	kg/m <sup>3</sup>	$4.95 \times 10^3$

Wave soldering:

1. The curve for:

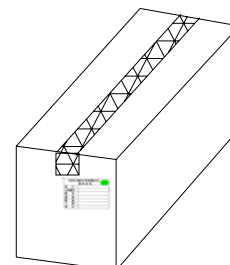
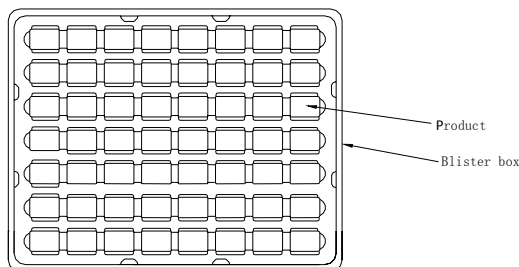


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

Packing Recognition Standard:

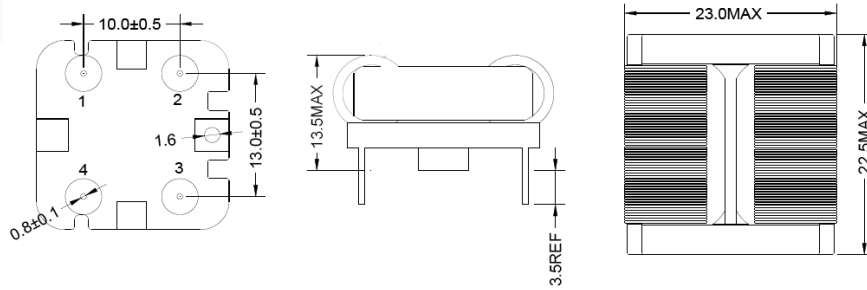
Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



Size of outer box: length \* width \* height (inner size)

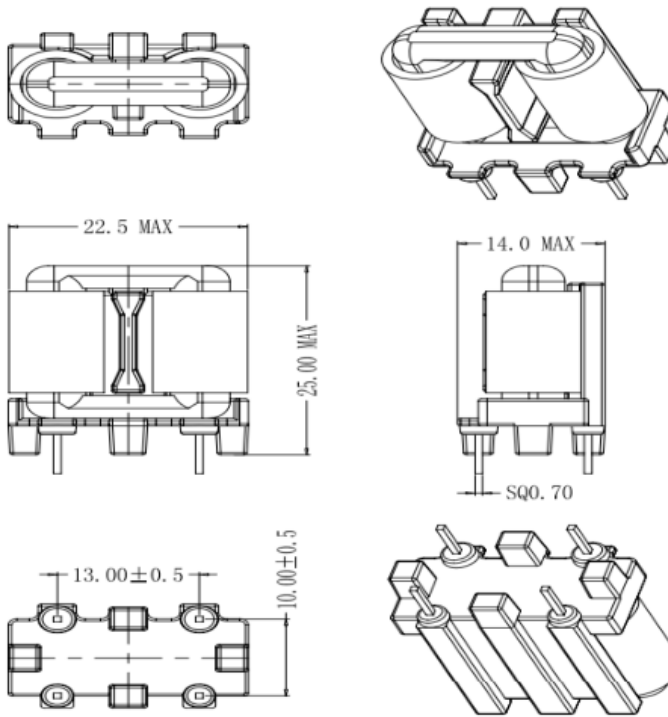
Dimension Diagram (Unit:mm):

Horizontal:



Product Pictures

Vertical:



Product Pictures

Electrical Properties: (At 25 °C):

Item no.	Inductance (mH)	Wire diameter	Dc Resistance (mΩ)	corresponding round Wire diameter	Working current (A)
SQ1918-20MH	20.0 min.	0.15*1.0-63Ts REF	240 Max	0.4299	2.0A
SQ1918-10MH	10.0 min	0.2*1.0-50Ts REF	145 Max	0.4936	2.5A
SQ1918-10MH	10.0 min	0.2*1.5-50Ts REF	100 Max	0.609	3.0A
SQ1918-6MH	6.0 min	0.25*1.5-41Ts REF	100 Max	0.678	3.5-4.0A
SQ1918-8MH	8.0 min	0.25*1.0-44Ts REF	105 Max	0.55	3.5A
SQ1918-5MH	5.0 min	0.3*1.5-35Ts REF	50 Max	0.7405	5.5A

\* Inductance test frequency: 1KHZ 0.25V

\* Other core materials and wire specifications can be used according to customer requirements

Performance Characteristics:

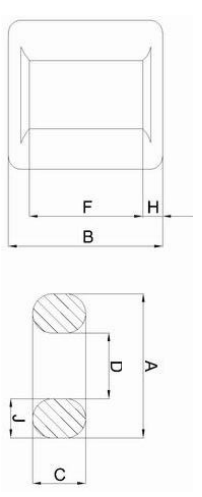
- ◆Magnetic core specification: SQ1918.
- ◆Fixed voltage: AC/DC 250V.
- ◆insulation resistance: 100MΩ Min. DC 500V
- ◆Storage temperature range: -25°C~+100°C
- ◆ Use square closed magnetic core, flat wire winding automatically;
- ◆ insulation voltage:AC 2.0KV 60SEC
- ◆Operating temperature range: -25°C~+125°C
- ◆Power range: 120-200W

Magnetic Core Size And Electrical Properties:

1. Dimensions (mm)

project	Center value	The tolerance
A	19.7	Max
B	20.4	Max
C	6.8	Max
D	7.4	Min
E	12.9	Min
F	6.05	Max
B-F	3.55	Max

Brief:



2. Effective Parameter

project	Le(mm)	Ae(mm <sup>2</sup> )	Ve(mm <sup>3</sup> )
parameter	52.6	20.55	1081.35

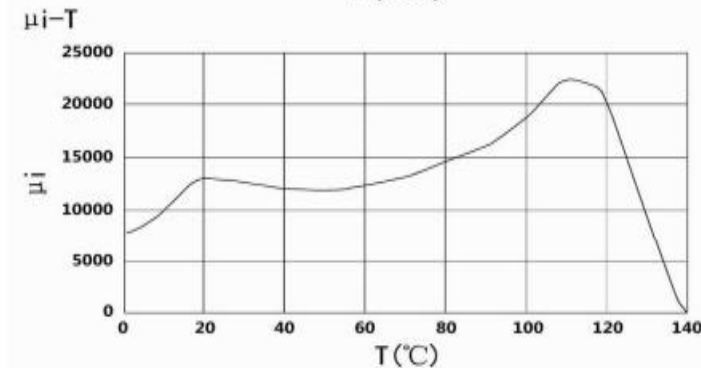
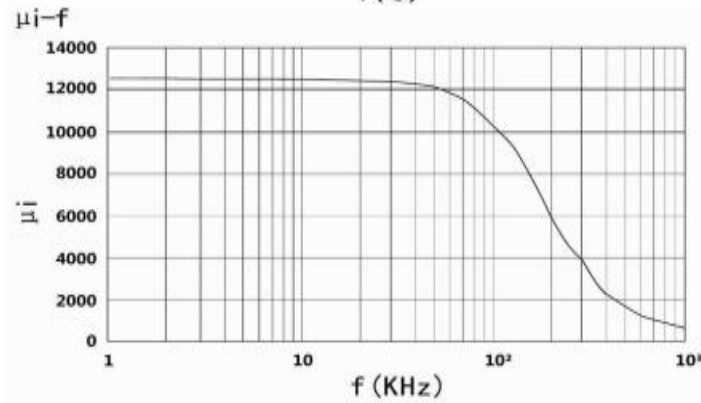
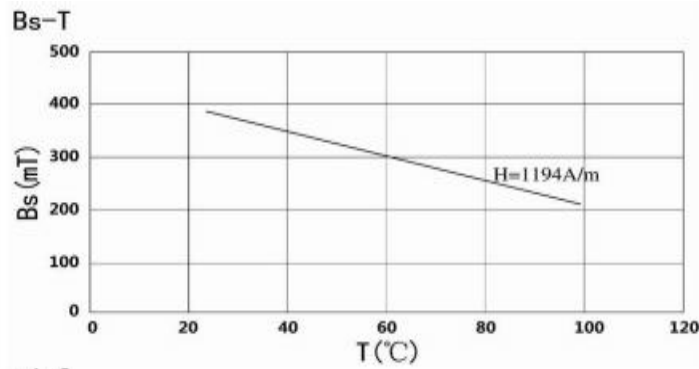
3. The performance requirements

AL= 5000min nH/N<sup>2</sup> test conditions: 1KHz, 0.3, 1Ts

4. Electrical Characteristics

Material: HR12K  $\mu_i$  Initial Permeability: 12000  $\pm$  25%

5. Characteristic Curve



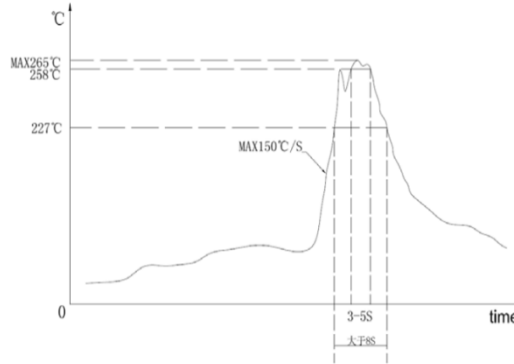
6. Material Properties

R12K

特性 Characteristics	符号 Symbol	单位 Unit	特性值 Value
初始磁导率 Initial permeability	$\mu_i$		12000 ± 25%
饱和磁通密度 (H=1194A/m) Saturation flux density	$B_s$	mT	380
比损耗因子 Relative loss factor	$\tan \delta / \mu_i$	$\times 10^{-6}$	<7(10kHz)
比温度系数 (25℃-60℃) Relative temperature coefficient	$\alpha / \mu_i$	$\times 10^{-6}/^\circ\text{C}$	-0.5~2.0
减落因子 Disaccommodation factor	DF	$\times 10^{-6}$	<2
剩磁(H=1194A/m) Remanence	$B_r$	mT	110
矫顽力(H=1194A/m) Coercivity	$H_c$	A/m	5
居里温度 Curie temperature	$T_c$	°C	≥110
电阻率 Resistivity	$\rho$	$\Omega \cdot \text{m}$	0.15
密度 Density	d	$\text{kg}/\text{m}^3$	$4.95 \times 10^3$

Wave soldering:

1. The curve for:

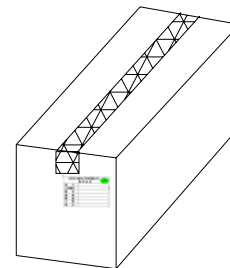
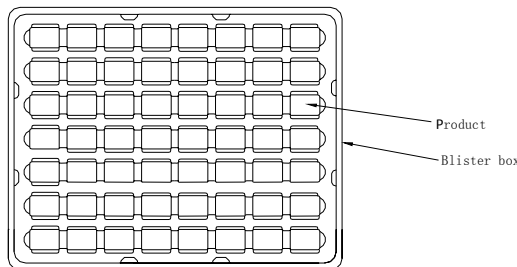


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

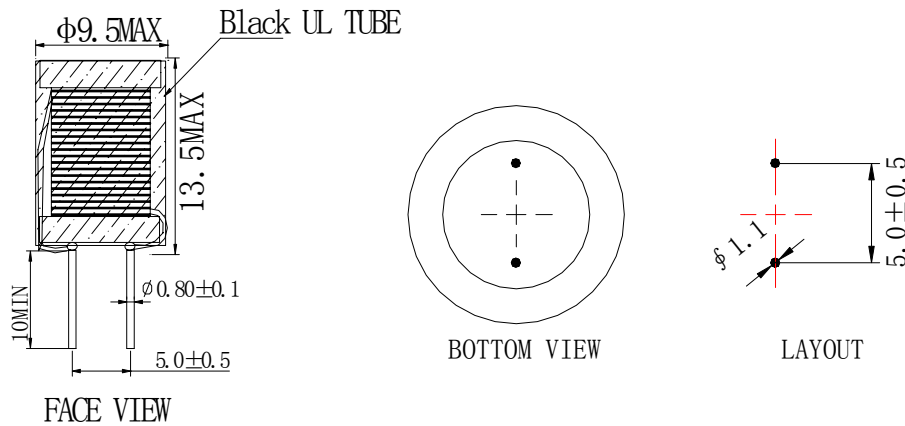
Packing Recognition Standard:

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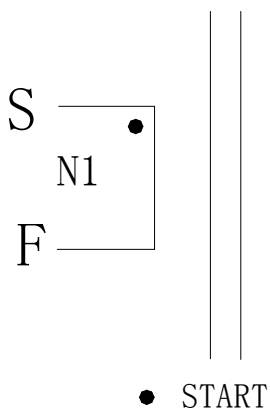
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	470uH±10%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L( - )	MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST			CC2672A
4	INSULATION RESISTANCE			CHEN HWA 19053 or EQU
5	DC RESISTANCE	R(S-F)	600mΩ MAX	CHEN HWA 502BC or EQU
6	URNS RATIO	Np	120	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

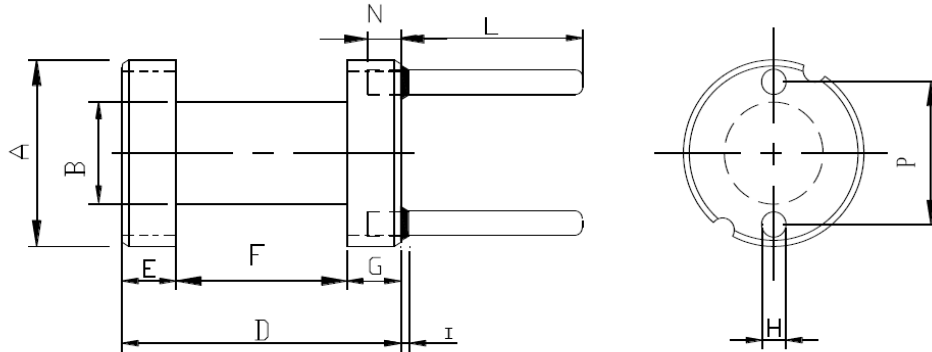
- ◆ Working frequency: 1KHZ—5MHZ.
- ◆ Storage temperature: -25to+85°C.
- ◆ Working temperature: -40to+125°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ I inductance has high power and high magnetic saturation; Low impedance, small size, easy installation. High Q factor, small distributed capacitance; Higher self-resonance frequency; Special needle structure, not easy to produce closed circuit; Can be used for automatic plug-in machines, more widely used.
- ◆ I inductance is often used in choke, filter inductance, energy storage inductance, EMI differential mode inductance, boost inductance, oscillation inductance, RF, etc.

Magnetic Core Size And Electrical Properties:

(1) Shape and Dimensions: (Unit: mm)

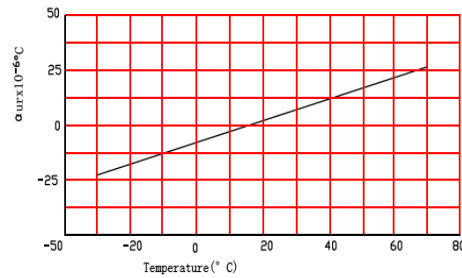
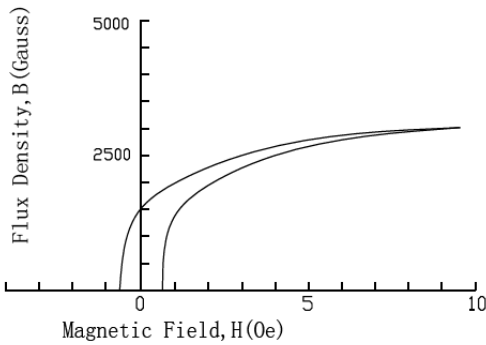


A	B	D	E	F	G	H	I	N	P	L	导线
8.00	4.00	12.00	2.50	7.00	2.50	1.20	0.80	1.50	5.00	0.6X14.5	0.6X16-CP
+0.30	+0.20	+0.40	+0.20	+0.25	+0.20	+0.15	MAX	+0.15	+0.50	+1.50	总长
-0.30	-0.20	-0.40	-0.20	-0.25	-0.20	-0.15		-0.15	-0.50	-1.50	

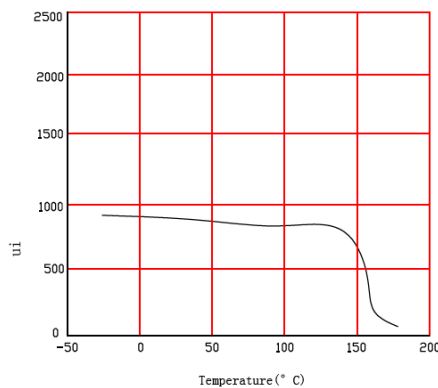
(2) Characteristics:

Item	Specification	Testing Frequency
Ls(mH)	1.0 ± 10%	1KHz/0.25V

(3). Characteristic Curve



Curie Temperature





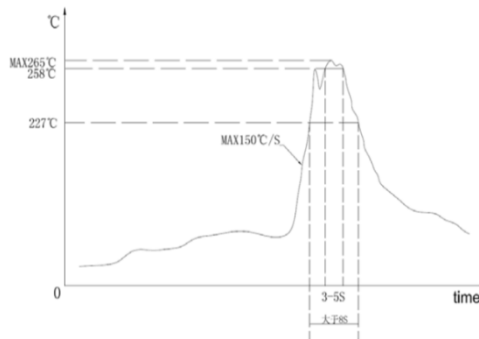
(4). Material Properties

MATERIAL: RL8

CHARACTERISTICS	UNIT	NUMBER
INITIAL PERMEABILITY (uiac)	ui	800±25%
MAGNETICFLUXDENSITY (BS)	Gauss	At22°C10oe3000
MAGNETIC FL UXDENSITY (Br)	Gauss	1300
MAGNETIC FIELD INTENSITY (HC)	Oersted	0.3
CURIE TEMPERA TURE (TC)	°c	>160
WORKING TEMPERA TURE (OR20°C to 60°C caur)	X10 <sup>-6</sup> °C	35
APPLICABLE FREQUENCY (F)	MHZ	0.1-1.0
VOLUME RESISTIVITY (ρ)	Ω Cm	10 <sup>7</sup>

Wave soldering:

1. The curve for:

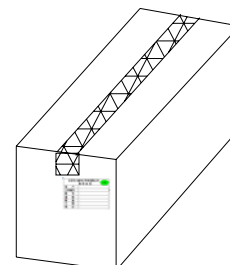
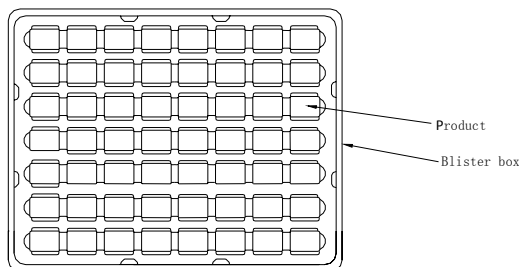


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

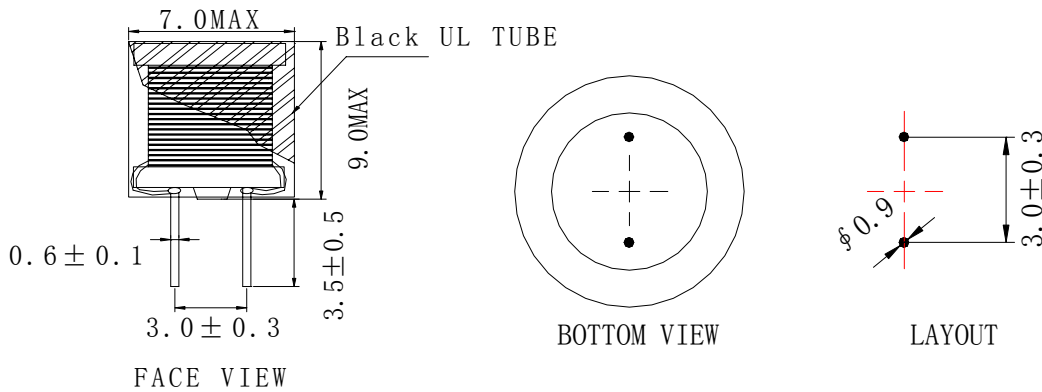
Packing Recognition Standard:

Use Blister tray plate + K = K carton packing, put in Blister tray plate products ordered a plate after plate in turn into cartons, each layer number of how many, how many layers, each containing total number of packages for each actual situation and decide how many are in different products, but must ensure that the same product is consistent with the whole case number of packages (note: tail, as the case may packing and logo), at the same time guarantee the packaging process.



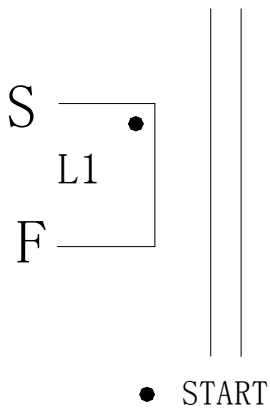
Size of outer box: length \* width \* height (inner size)

Dimension Diagram (Unit:mm):



Product Pictures

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	2.0mH±10%	CH1062 1KHz 0.25V
2	Inductance Balance Value	L(-)	MAX	TH2816B 1KHz 0.25V
3	HI-POT TEST			CC2672A
4	INSULATION RESISTANCE			CHEN HWA 19053 or EQU
5	DC RESISTANCE	R(S-F)	8.0Ω MAX	CHEN HWA 502BC or EQU
6	TURNS RATIO	Np	270.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

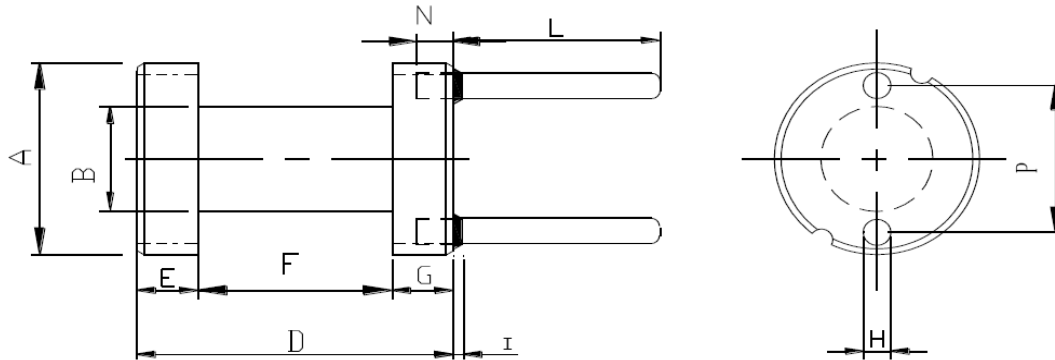
- ◆ Working frequency: 1KHZ—5MHZ.
- ◆ Storage temperature: -25to+85°C.
- ◆ Working temperature: -40to+125°C.
- ◆ Store humidity: 30to95%.

Applications:

- ◆ Inductance has high power and high magnetic saturation; Low impedance, small size easy installation. High Q factor, small distributed capacitance; Higher self-resonance frequency; Special needle structure, not easy to produce closed circuit; Can be used for automatic plug-in machines, more widely used.
- ◆ Inductance is often used in choke, filter inductance, energy storage inductance, EMI differential mode inductance, boost inductance, oscillation inductance, RF, etc.

Magnetic Core Size And Electrical Properties:

(1) Shape and Dimensions: (Unit: mm)

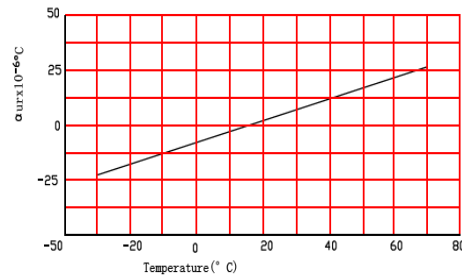
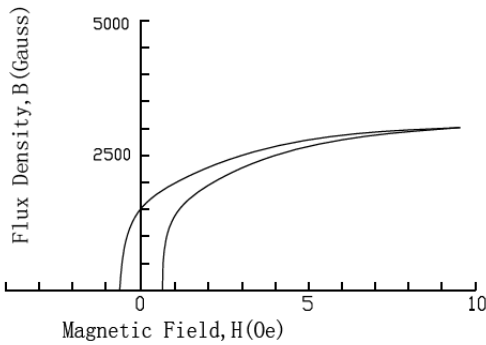


A	B	D	E	F	G	H	I	N	P	L	导针
6.00	3.00	8.00	2.00	4.00	2.00	1.15	0.80	1.50	3.00	0.6X14.5-CP	0.6X16
+0.25	+0.20	+0.30	+0.20	+0.30	+0.20	+0.15	MAX	+0.15	+0.30	+1.50	总长
-0.25	-0.20	-0.30	-0.20	-0.30	-0.20	-0.15		-0.15	-0.30	-1.50	

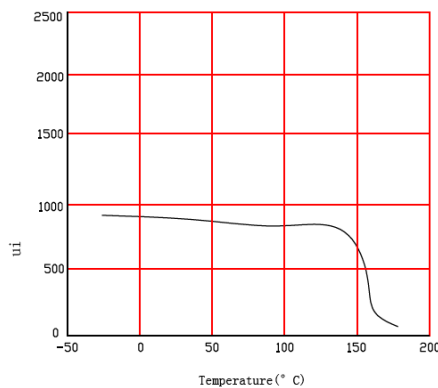
(2) Characteristics:

Item	Specification	Testing Frequency
Ls(μH)	100μH±10%	1KHz/0.25V

(3). Characteristic Curve



Curie Temperature



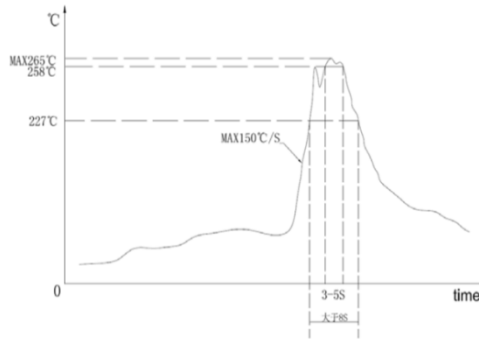
(4). Material Properties

MATERIAL: RLB

CHARACTERISTICS	UNIT	NUMBER
INITIAL PERMEABILITY (uiac)	ui	800±25%
MAGNETICFLUXDENSITY (BS)	Gauss	At22°C10oe3000
MAGNETIC FL UXDENSITY (Br)	Gauss	1300
MAGNETIC FIELD INTENSITY (HC)	Oersted	0.3
CURIE TEMPERA TURE (TC)	°c	>160
WORKING TEMPERA TURE (OR20°C to 60°C caur)	X10 <sup>-6</sup> °C	35
APPLICABLE FREQUENCY (F)	MHZ	0.1-1.0
VOLUME RESISTIVITY (ρ)	Ω Cm	10 <sup>7</sup>

Wave soldering:

1. The curve for:

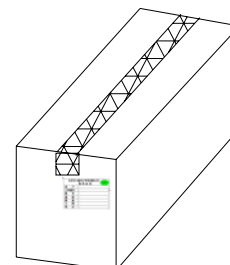
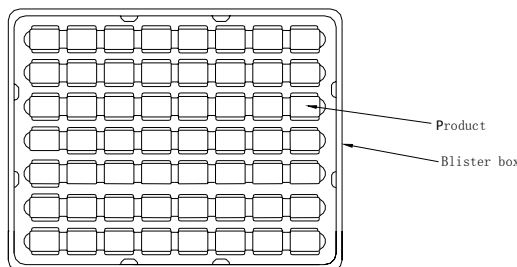


2. The material requirements:

- 2.1. Welding maximum temperature of 265 °C, material maximum temperature at 265 °C for 5s to meet the welding time.
- 2.2. Component pins can thermal shock under 150 °C / S, and can return more than 2 times.
- 2.3. The plug-in components of ontology encapsulation(plastic part))must be in 60-120 °C high temperature resistant 90 seconds
- 2.4. Can guarantee at 227 °C to 265 °C under 8 s continuous welding time, welding time of 5 s in 258 °C to 265 °C.
- 2.5. Instrumentation materials manual welding guarantee when setting up a temperature of 390 °C, welding time of 8 seconds.

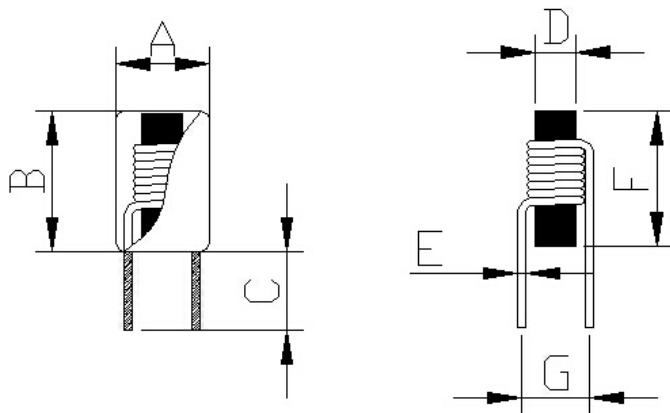
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Size of outer box: length \* width \* height (inner size)

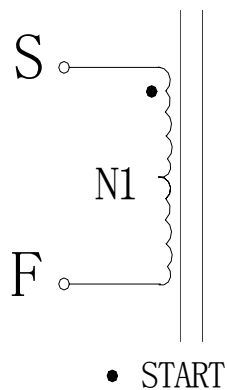
Dimension Diagram (Unit:mm):



Product Pictures

项目(SYMBOL).	A	B	C	D	E	F	G
尺寸 (DIMENSIONS).	7.0Max	17.5Max	4.0±1.0	3.0±0.05	0.8±0.05	15.0±0.2	5.0±1.0

Polarity Principle And Electrical Properties Item:



NO	ITEM	TEST POINT	SPECIFICATION	TEST CONDITION& INSTRUMENT
1	INDUCTANCE	L(S-F)	2.0uH Min	CH1062 1KHz 0.3V
2	Inductance Balance Value	L( - )	uH MAX	TH2816B 1KHz 0.3V
3	HI-POT TEST	COIL-COIL COIL-CORE		CC2672A
4	INSULATION RESISTANCE	COIL-COIL COIL-CORE	DC500V 100MΩ MIN	CHEN HWA 19053 or EQU
5	DC RESISTANCE	R( - )	Ω MAX	CHEN HWA 502BC or EQU
6	URNS RATIO	Np	13.5	CHEN HWA 310 or EQU

Performance Characteristics And Application Fields:

Features:

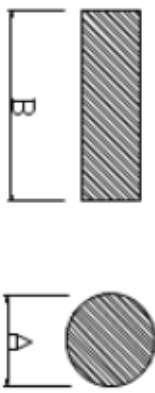
- ◆工作频率: 1kHz-5MHz
- ◆工作温度: -40℃ to +125℃
- ◆储存温度: -25℃ to +85℃
- ◆储存湿度: 30 to 95%

Applications:

- ◆R bar inductance adopts large current design, which is suitable for large current circuit board. Is different from the i-inductance; The i-type inductor can achieve mH, while the bar type inductor can only achieve dozens of uH.
- ◆R bar inductors are commonly used in power supplies, power amplifiers, noise filters for switching circuits, industrial controlled rectifiers, thyristor control circuits, output chokes, etc.

Magnetic Core Size And Electrical Properties:

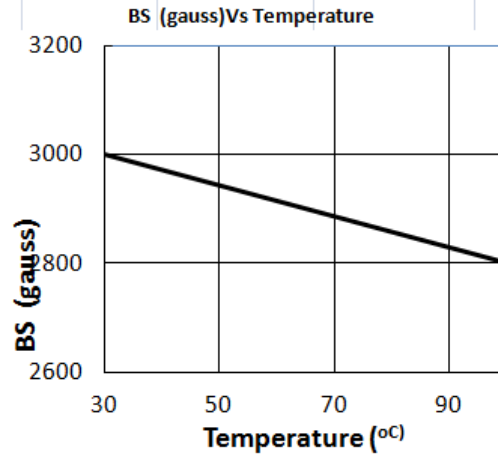
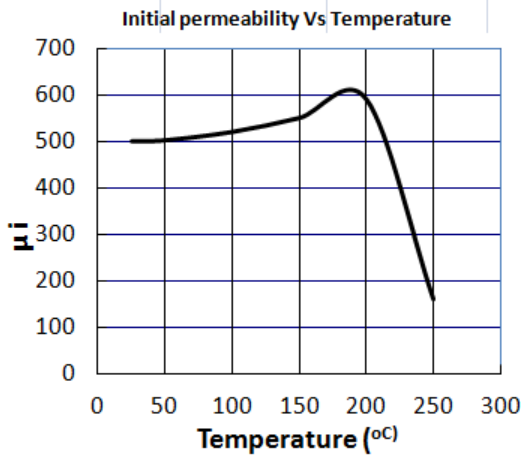
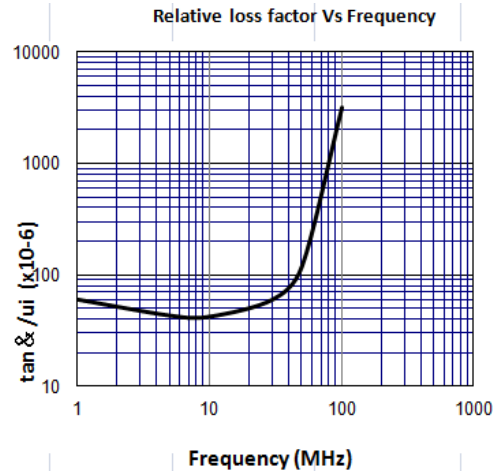
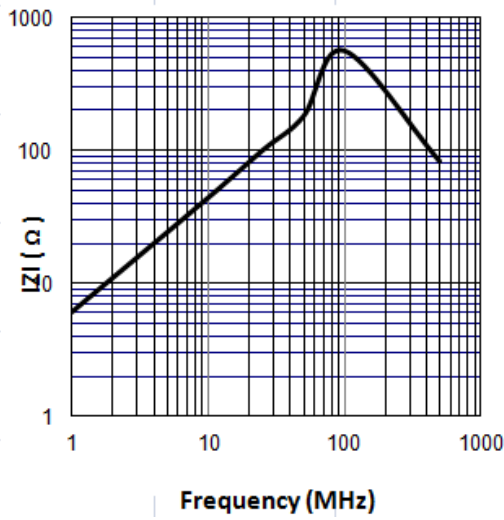
1. Dimensions (mm)

project	Center value	The tolerance	Brief:
A	3.0	+0.05/-0.15	
B	15.0	±0.5	

2. The performance requirements:

AL= 3.0uH ± 10% test conditions: 1KHz, 0.25V.

3. Characteristic Curve

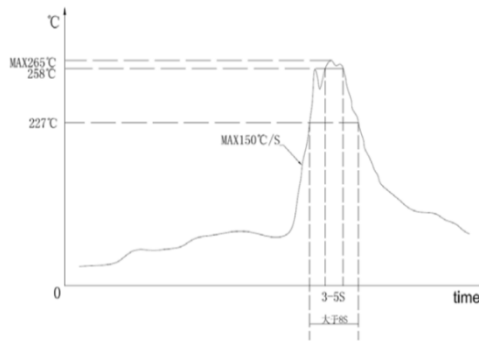


4. Material Properties

特性 Property	初始磁导率 Initial permeability	饱和磁束密度 Saturation flux density	居里温度 Curie temperature	密度 Density	比损耗因素 Relative loss factor	初始磁率比 温度系数 Temperature factor	电阻率 Resistivity
Unit	$\mu$ $\pm 25\%$	BS (gauss)	TC ( $^{\circ}\text{C}$ )	d ( $\text{g}/\text{cm}^3$ )	$\tan \delta / \omega \mu$ ( $\times 10^{-6}$ MHZ)	$\alpha \mu$ $\times 10^{-6}/^{\circ}\text{C}$ ( $20-70^{\circ}\text{C}$ )	$\Omega \cdot \text{cm}$
Material							
KH-M2	600	3000	>170	4.8	<80 1	5-24	$10^6$

Wave soldering:

1. The curve for:

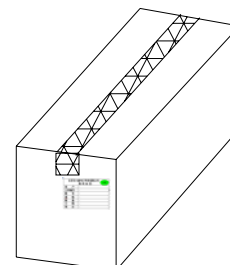
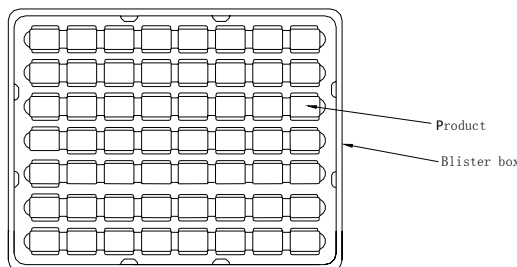


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