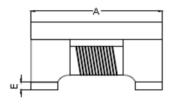
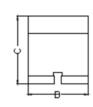


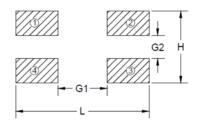
FEATRLRES

- High common mode impedance at high frequency cause excellent noise suppression performance.
- 100% Lead(Pb) & Halogen-Free and RoHS compliant.

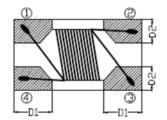
CONFIGRLRATIONS & DIMENSIONS (unit in mm)







Recommended PC Board Pattern



PC board should be designed so that products can prevent damage from mechanical stress when warping the board.

Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

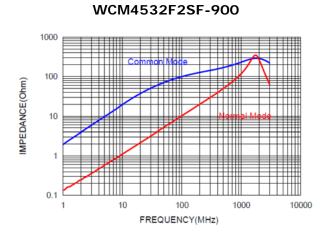
Series	Α	В	С	D1	D2	E	G1	G2	н	L
4532F2SF	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.1	1.2±0.1	-	2.5	0.7	3.8	4.8

ELECTRICAL CHARACTERISTICS

Part Number	Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
WCM4532F2SF-900T20	90±25%	100	0.05	2000	50	125	10M
WCM4532F2SF-201T15	200±25%	100	0.10	1500	50	125	10M
WCM4532F2SF-601T15	600±25%	100	0.24	1500	50	125	10M
WCM4532F2SF-801T10	800±25%	100	0.24	1000	50	125	10M

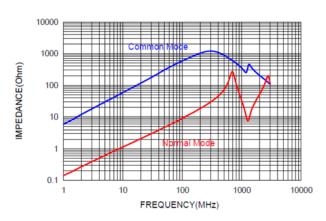


Typical Impedance v.s. Frequency Curve

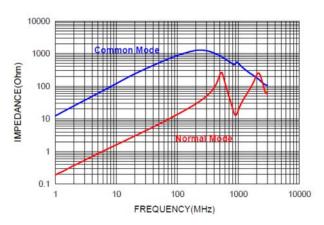


WCM4532F2SF-201

WCM4532F2SF-601



WCM4532F2SF-801



Reliability and Test Condition

Item	Performance	Test Condition		
Operating temperature	-40~+125℃ (Including self - temperature rise)			
Storage temperature	110~+40°ℂ,50~60%RH (Product with taping) 240~+125°ℂ(on board)			
Electrical Performance Test				
Inductance	Refer to standard electrical characteristics list.	HP4284A,CH11025,CH3302,CH1320,CH1320S LCR Meter.		
DCR	Neter to standard electrical characteristics list.	CH16502,Agilent33420A Micro-Ohm Meter.		
Saturation Current (Isat)	Approximately△L30%	Saturation DC Current (Isat) will cause L0 to drop △L(%)		
Heat Rated Current (Irms)	Approximately △T40°C	Heat Rated Current (Irms) will cause the coil temperature rise $\triangle T(C)$. 1.Applied the allowed DC current 2.Temperature measured by digital surface thermometer		
Reliability Test				
		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles)		
Life Took		Temperature : 125±2°C (Inductor)		
Life Test		Applied current : rated current		
		Duration: 1000±12hrs		
	Appearance : No damage.	Measured at room temperature after placing for 24±2 hrs		



Inductance: within±10% of initial value	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles					
·	Humidity : 85±2 ∗ R.H,					
	Temperature : 85°C±2°C					
cxccca the specification value	Duration: 1000hrs Min. with 100% rated current					
-	Measured at room temperature after placing for 24±2 hrs					
	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD 020DClassification Reflow Profiles 1. Baked at50℃ for 25hrs, measured at room temperature after placin for 4 hrs.					
	2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs,keep at 25°C for 2 hrs then keep at -10°C for 3 hrs 4. Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.					
	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD 020DClassification Reflow Profiles Condition for 1 cycle Step1: -40±2°C 30±5min Step2: 25±2°C ≤0.5min Step3: 125±2°C 30±5min Number of cycles: 500 Measured at room temperature after placing for 24±2 hrs					
	Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes Equipment: Vibration checker Total Amplitude:1.52mm±10% Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations).					
	Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.					
Appearance : No damage. Impedance : within±15% of initial value Inductance : within±10% of initial value Q : Shall not exceed the specification value.	Type Peak value duration (D) Wave form Velocity change (y's) (ms) Wave form (Vi)ft/sec					
RDC: within ±15% of initial value and shall not exceed the specification value	SMD 50 11 Half-sine 11.3 Lead 50 11 Half-sine 11.3					
More than 95% of the terminal electrode should be covered with solder.	Preheat: 150°C,60sec Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5°C ∘ Flux for lead free: Rosin. 9.5% ∘ Dip time: 4±1sec ∘ Depth: completely cover the termination					
	Depth: completely cover the termination					
	Temperature ramp/immersion Number of and emersion rate heat cycles					
	260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1					
Appearance: No damage. Impedance: within±15% of initial value Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value e	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD 020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested apply a force(>0805:1kg, <=0805:0.5kg)to the side of a device bein tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component bein tested.					
	Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value Appearance: No damage. Impedance: within±15% of initial value Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value. More than 95% of the terminal electrode should be covered with solder.					

Note: When there are questions concerning measurement result: measurement shall be made after 48 ± 2 hours of recovery under the standard condition.