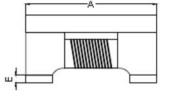


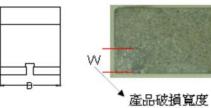


FEATRLRES

- 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)





當破損面積<5%,產品列入允收品範圍

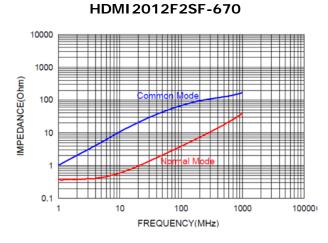
1	0
	7
4	3
L-D1-J	D1

Size	Α	В	С	D1	D2	Е
2012F2SF	2.0±0.2	1.2±0.2	1.2±0.2	0.5 ± 0.1	0.5±0.1	0.15±0.1

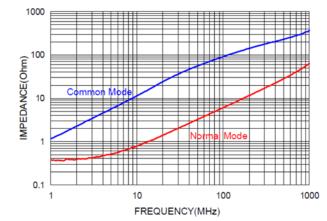
ELECTRICAL CHARACTERISTICS

Part Number	•	dance 2)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
HDMI2012F2SF-670T04	67 typ.	50 min.	100	0.30	400	50	125	10M
HDMI2012F2SF-900T04	90 typ.	65 min.	100	0.30	400	50	125	10M

Typical Impedance v.s. Frequency Curve



HDMI 2012F2SF-900





Reliability and Test Condition

Item	Performance	Test Condition					
Operating temperature	-40~+125℃ (Including self - temperature rise)						
Storage temperature	110~+40℃,50~60%RH (Product with taping) 240~+125℃ (on board)	-					
Electrical Performance Test	•	•					
Inductance		HP4284A,CH11025,CH3302,CH1320,CH1320S LCR Meter.					
DCR	 Refer to standard electrical characteristics list. 	CH16502,Agilent33420A Micro-Ohm Meter.					
Saturation Current (Isat)	Approximately∆L30%	Saturation DC Current (Isat) will cause L0 to drop $\triangle L(\%)$					
Heat Rated Current (Irms)	Approximately △T40°C	Heat Rated Current (Irms) will cause the coil temperature rise $\triangle T(\degree C)$. 1.Applied the allowed DC current 2.Temperature measured by digital surface thermometer					
Reliability Test							
Life Test		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles) Temperature : 125±2°C (Inductor) Applied current : rated current Duration : 1000±12hrs Measured at room temperature after placing for 24±2 hrs					
Load Humidity		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Humidity : 85±2 * R.H, Temperature : 85℃±2℃ Duration : 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs					
Moisture Resistance	Appearance : No damage. 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	 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 placing for 4 hrs. 2. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 3. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs,keep at 25℃ for 2 hrs then keep at -10℃ for 3 hrs 4. Keep at 25℃ 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. 					
Thermal shock		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD- 020DClassification Reflow Profiles Condition for 1 cycle Step1 : $-40\pm2^{\circ}$ C 30±5min Step2 : $25\pm2^{\circ}$ C ≤ 0.5 min Step3 : $125\pm2^{\circ}$ C 30±5min Number of cycles : 500 Measured at room temperature after placing for 24±2 hrs					
Vibration		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),					
Bending		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.					
Shock	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	Type Peak value (g's) Normal duration (D) (ms) Wave form Velocity change (Vi)ft/sec SMD 50 11 Half-sine 11.3 Lead 50 11 Half-sine 11.3					
Solder ability	More than 95% of the terminal electrode should be covered with solder。	Preheat: 150℃,60sec.₀ Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5℃ ∘ Flux for lead free: Rosin. 9.5% ∘ Dip time: 4±1sec ∘					



		Depth: completely cover the termination
		Depth: completely cover the termination
Resistance to Soldering Heat		Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate Number of heat cycles
		260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1
Terminal Strength	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 being 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 being tested.

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