文件编号HXA-L08-02(01)发行日期2018年01月27日

承认规格书

种 类:Common Mode Filter

系列号: HXA1206F2SF-600T02

客户料号:_____

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承认日期		 月	

(贵司承认后请签署一份返回华信安电子,谢谢!)

厦门华信安电子科技有限公司技术质量部

承 认	确认	作成
龙梅	梁峰	王亮

TEL: 0592-6301603 FAX: 0592-5205265

Http: www.xmisnd.com



Wire Wound Type Common Mode Filter

HXA1206F2SF-600T02

	ECN HISTORY LIST								
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN				
1.0	18/01/27	新發行	龙梅	梁峰	王亮				
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Wire Wound Type Common Mode Filter

HXA1206F2SF-600T02

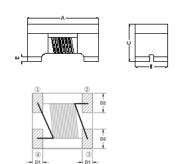
1. Features

- 1. High common mode impedance at high frequency effects excellent noise suppression performance.
- 2. HXA1206F2SF series realizes small size and low profile. 3.2x1.6X2.0 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

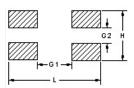




2. Dimension



Recommended PC Board Pattern



PC board should be designed so that products are not sufficient under mechanical stress as warping the board.

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

Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
1206F2SF	3.4±0.2	1.6±0.2	2.0±0.2	0.64±0.1	0.66±0.1	0.12 (typ.)	3.7	1.7	2.3	0.5

Units: mm

3. Part Numbering

HXA 1206 F 2 S F - 600 T 02

A B C D E F G H I

A: Series B: Dimension

C: Material Ferrite Core
D: Number of Lines 2=2 lines

E: Type S=Shielded, N=Unshielded

F: Lead free

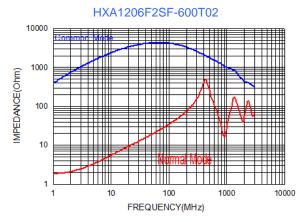
G: Inductance 600=60uH

H: Packaging T=Taping and Reel
I: Rated Current 02=200mA

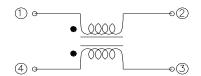
4. Specification

ISND Part Number	Inductance(uH) [100kHz/0.1V] Min.	Capacitance (pF)Max	DC Resistance (Ω) Max.	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc) max.	IR(Ω) min.
HXA1206F2SF-600T02	60	18	1.7	200	50	125	10M



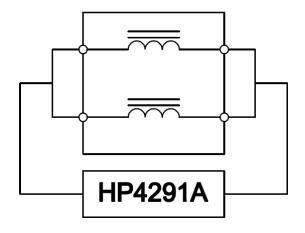


5.Schematic Diagram

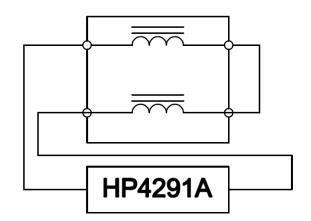


6. MEASURING CIRCUITS 2LINE

Common mode

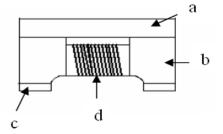


Differential mode



7. Materials

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
С	Termination	Tin (Pb Free)
d	Wire	Enameled Copper Wire





8. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+85℃ (Including self - temperature rise)	
Storage temperature	-40-+85°C (on board)	
Electrical Performance Tes	st	
L(common mode)		Agilent-4291A+ Agilent -16197A
DCR	Refer to standard electrical characteristics list.	Agilent-4338B
I.R.		Agilent4339
Temperature Rise Test	Rated Current < 1A	Applied the allowed DC current. 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: 85±2°C 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°C±2°C 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 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. 4. 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. Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC
Thermal shock		J-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1 : -40±2°C 30±5min Step2 : 25±2°C ≤0.5min Step3 : 85±2°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).



Item	Performance	Test Condition
Bending	Appearance : No damage.	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.
	RDC: within ±15% of initial value and shall not exceed the specification value	Type Peak Normal duration (D) Wave change (Vi)ft/sec
Shock		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°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
Resistance to Soldering Heat		Depth: completely cover the termination Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate Number of heat cycles (solder temp) 10 ±1 25mm/s ±6 mm/s 1
Terminal Strength	Appearance: No damage. Inductance: within±10% of initial 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 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.
		substrate press tool shear force



9. Soldering and Mounting

9-1. Soldering

Mildly activated rosin fluxes are preferred. ISND terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

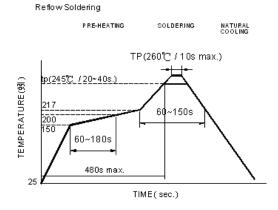
9-1.1 Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

9-1.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

- Preheat circuit and products to 150°C Never contact the ceramic with the iron tip Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 4~5 sec.



Reflow times: 3 times max.

Fig.1

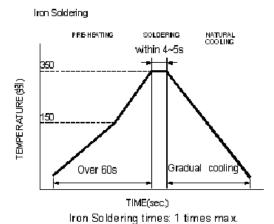
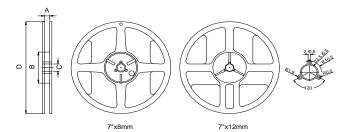


Fig.2



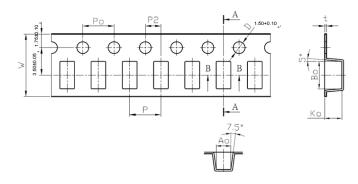
10.Packaging Information

10-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

10-2. Tape Dimension / 8mm

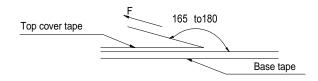


Series	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)	W(mm)	t(mm)
HXA1206	4.00±0.10	4.00±0.10	2.00±0.05	3.50±0.10	1.88±0.10	2.20±0.10	8.00±0.10	0.26±0.05

10-3. Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
HXA1206F2S	2000	10000	50000	100000

10-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(℃)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

Application Notice

Storage Conditions (component level)

To maintain the solderability of terminal electrodes:

- 1. ISND products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.



单击下面可查看定价,库存,交付和生命周期等信息

>>ISND(华信安)