



# Common Mode Choke SMD (1.2 X 1.0 X 0.9mm)

## **FEATURES**

- High common mode impedance at high frequency
- excellent noise suppression performance
- Ideal for use as common-mode chokes for USB1.1/USB2.0/IEEE 1394 interface
- Halogen Free RoHS compliant

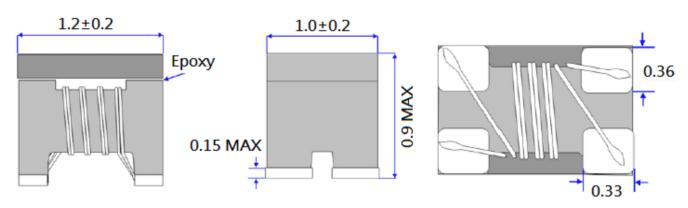


#### **SPECIFICATION**

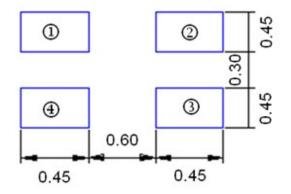
Part No.	Common Mode Impedance typ. (Ω)	Tolerance Max (%)	Rated Current (mA)	Rated Voltage (VDC)	Insulation Resistance min. (M $\Omega$ )	DC Resistance max. (Ω)
T4FC1210DF-150	15 @ 100MHz	25	300	20	10	0.30
T4FC1210DF-250	25 @ 100MHz	25	300	20	10	0.30
T4FC1210DF-400	40 @ 100MHz	25	300	20	10	0.35
T4FC1210DF-500	50 @ 100MHz	25	300	20	10	0.40
T4FC1210DF-900	90 @ 100MHz	25	280	20	10	0.50

- Electrical measurements at ambient temperature of 20°C
- Test equipment: HP4291A

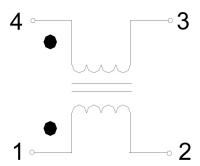
#### **DIMENSION**



#### **SOLDER PATTERN**



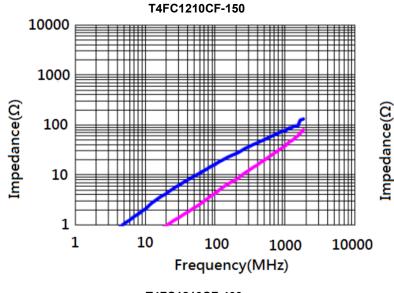
#### **SCHEMATIC**

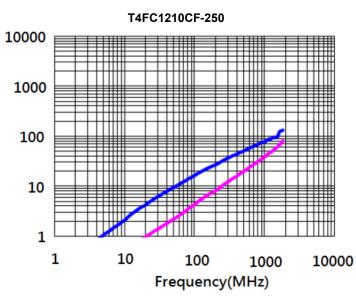


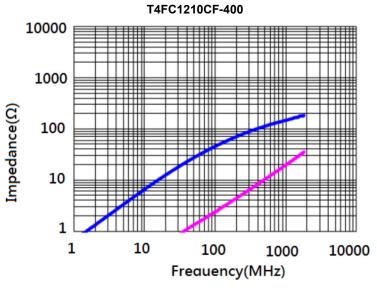


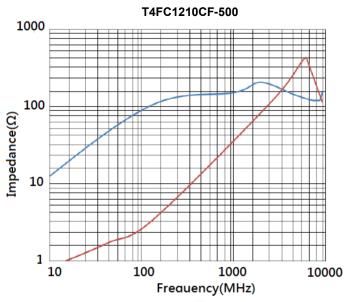


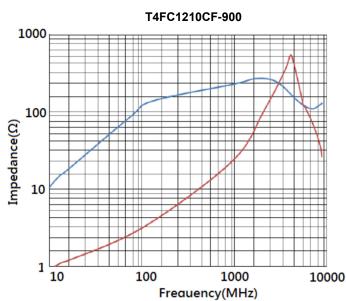
#### **CHARACTERISTICS**











Tel: 714-528-8000



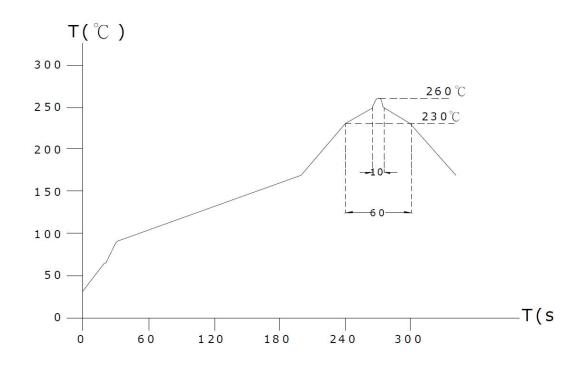
# **T4FC1210DF SERIES**

## **RELIABILITY TEST**

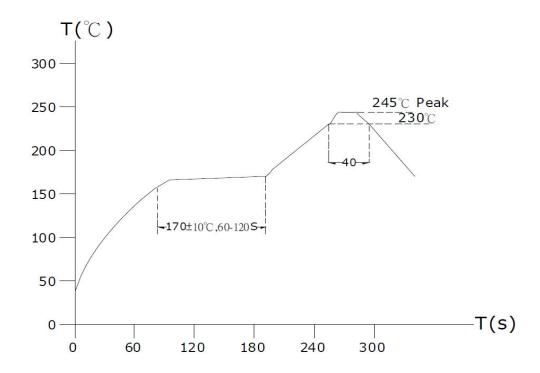
Operating temperature: -40 to	+85°C	Storage temp a	nd humidity : -40~85°C ,60% RH max
ITEM	SPECIFIC	CATIONS	TEST CONDITIONS
Solderability	The metalized area minimum solder cov		Dip pads in flux and dip in solder pot (99 Sn or 96.5 Sn/3.5 Ag solder) at 232°C ±5°C.
Resistance to soldering heat	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.		Inductors shall be reflowed onto a PC board using 96.5 Sn/3.5 Ag or 99 Sn solder paste. Solder process shall be at a maximum temperature of 260°C. For 99 Sn solder paste: >183°C for 120 sec. For 96.5 Sn/3.5 Ag solder paste: >217°C for 90 sec
Vibration	or change in dimensions. Inductance must not change more		Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 house for a total of 6 hours.  Frequency: 10~50 Hz; Amplitude: 1.5mm
High temperature resistance			Inductors shall be subjected to temperature 125±2°C for 500±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Static Humidity	Inductors must not have a shorted or open winding.		Inductors shall be subjected to temperature 85±2°C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Component adhesion (push test)	Inductors shall be subjected to 1.8Kg		Inductors shall be reflow soldered (232°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.
Low temperature storage	or change in dimensions		Inductors shall be subjected to temperature -40±2°C for 48±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2hours.
Resistance to solvent	There must be no ca or change in dimens obliteration of marki	sions, or	Inductors must withstand 6 minutes of alcohol or water.
There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.		sions. t change more	Inductors shall be subjected to 10 cycles to the following temperature cycle:  -1 cycle -30 min.  Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.



#### LEAD-FREE HEAT ENDURANCE TEST



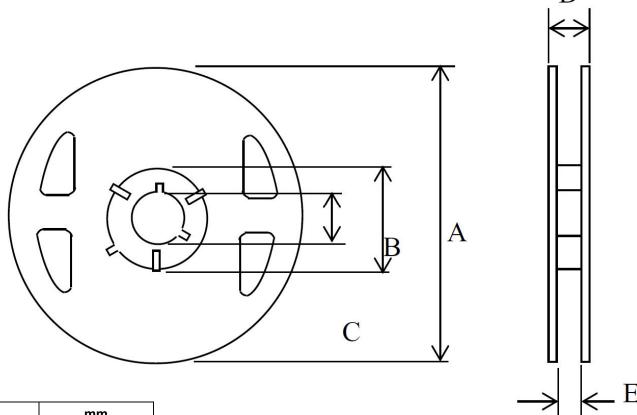
#### **LEAD-FREE RECOMMENDED REFLOW**



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# **REEL DIMENSIONS (3000 pcs per reel)**



	mm		
Α	180		
В	60		
С	13 +0.5 / -0.2		
D	D 14.4		
E	8.4		

