

F4P1210D TYPE

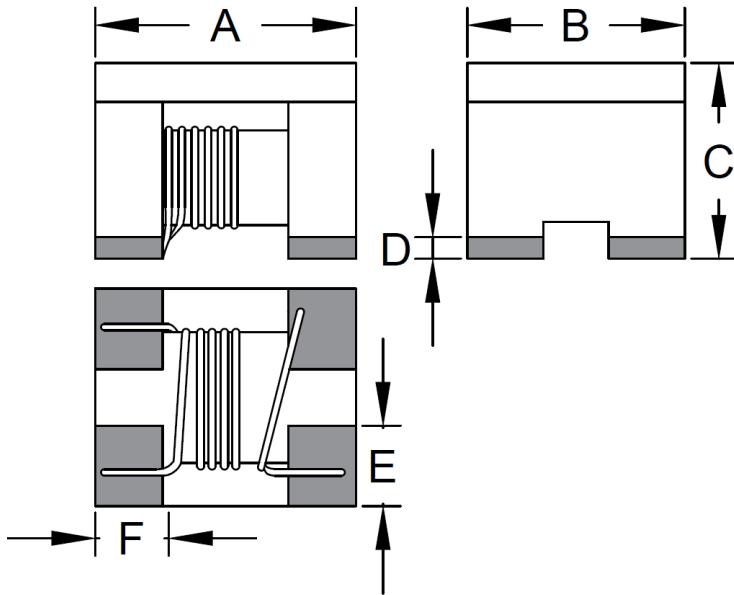
●FEATURE

1. High common mode impedance at high frequency effects excel noise suppression performance
2. Suitable for differential signal line like HDMI 2.0, IEEE 1394 and LVDS

●Applications

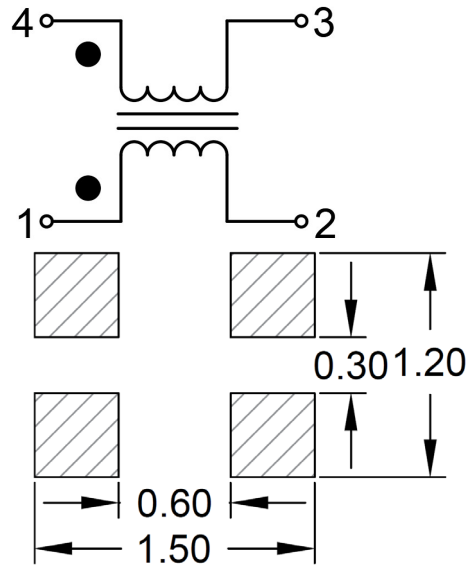
1. Ideal for use as common-mode chokes for USB1.1/USB2.0/IEEE 1394 interface

●Shape and Dimension



A=1.2±0.2mm ; B= 1.0±0.2mm ; C= 0.9mm Max. ; D= 0.15mm Max. ; E= 0.36mm Typ. ; F= 0.33mm Typ.

●Schematics and Land Patterns(mm)



●Specification

PART NO.	Common Mode Impedance (Ω) at 100MHz	Rated Current (mA) Max.	Rated Voltage (Vdc)	Insulation Resistance (MΩ) Min.	DC Resistance (Ω) Max.
F4P1210D-150	15±25%	300	20	10	0.30
F4P1210D-250	25±25%	300	20	10	0.30
F4P1210D-400	40±25%	300	20	10	0.30
F4P1210D-500	50±25%	300	20	10	0.40
F4P1210D-900	90±25%	280	20	10	0.50
F4P1210D-121	120±25%	270	20	10	0.55

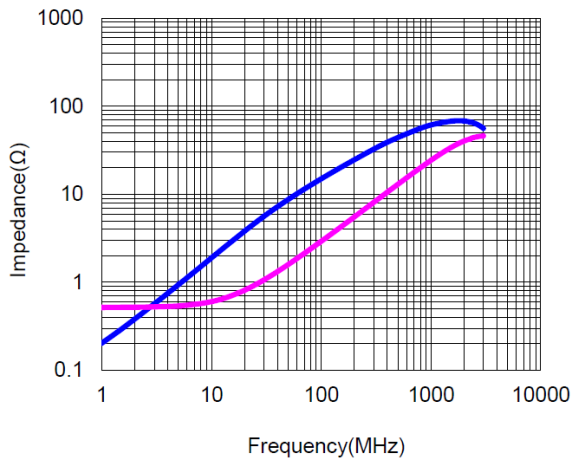
Note1. Measurement ambient temperature of electrical : at 20°C

Note2. Test equipment: HP4294A

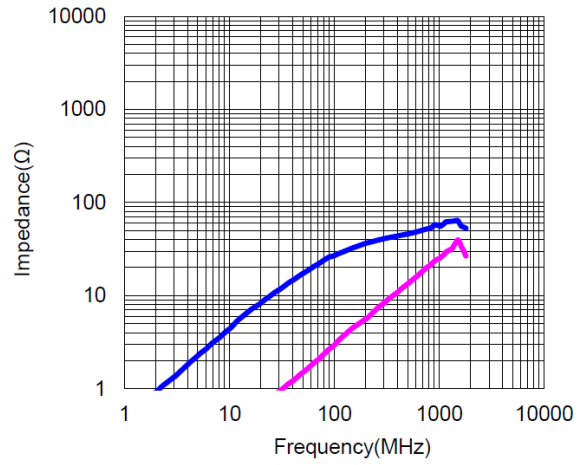
Note3. Packaging: Taping ; Quantity: 3000 Pieces/Reel

● Performance Curves

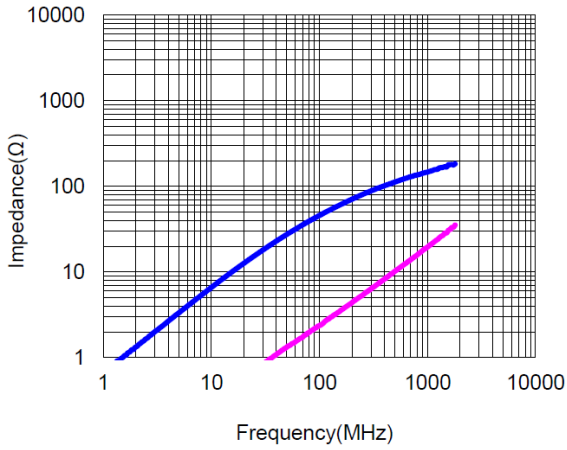
F4P1210D-150



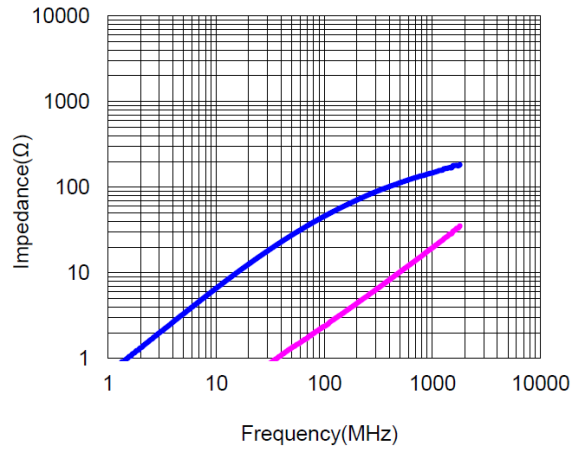
F4P1210D-250



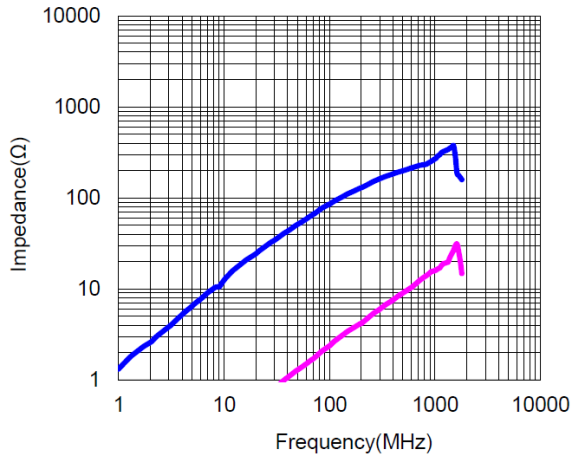
F4P1210D-400



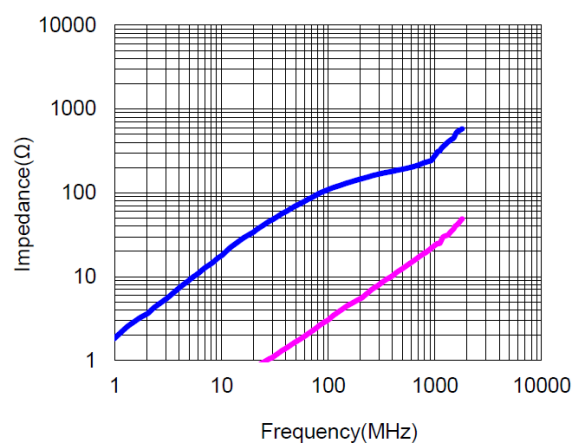
F4P1210D-500



F4P1210D-900

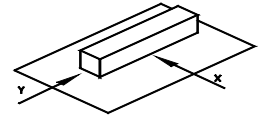


F4P1210D-121

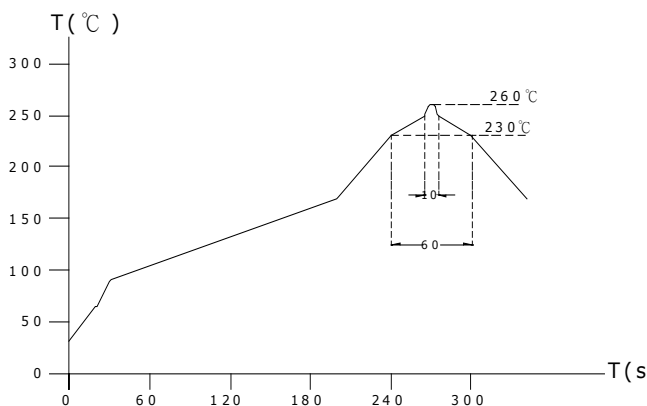


GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 125°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 0.5kg Min –F4P4532EL.
4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C) , inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C , 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35°C ~ 85°C , Humidity Range: 50% ~ 95% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

