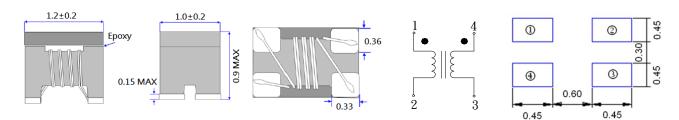
F4P1210D TYPE

•<u>FEATURE</u>

- 1. High common mode impedance at high frequency effects excel noise suppression performance
- 2. Suitable for differential signal line like USB2.0, IEEE 1394 and LVDS
- Applications
- 1. Ideal for use as common-mode chokes for USB1.1/USB2.0/IEEE 1394 interface

Shape and Dimension and Schematics and Land Patterns(mm)



• Specification

| PART NO. | Common Mode Impedance (ohm) (tolerance±25%) | Rated Current (mA) | Rated Voltage (Vdc) | Insulation Resistance (M ohm) | DC Resistance (max.) (ohm) |
|--------------|---|--------------------------|------------------------|-------------------------------------|----------------------------------|
| F4P1210D-150 | 15 (Typ.) at 100MHz | 300 | 20 | 10 min | 0.30 |
| F4P1210D-250 | 25 (Typ.) at 100MHz | 300 | 20 | 10 min | 0.30 |
| F4P1210D-400 | 40 (Typ.) at 100MHz | 300 | 20 | 10 min | 0.30 |
| F4P1210D-500 | 50 (Typ.) at 100MHz | 300 | 20 | 10 min | 0.40 |
| F4P1210D-900 | 90 (Typ.) at 100MHz | 280 | 20 | 10 min | 0.50 |

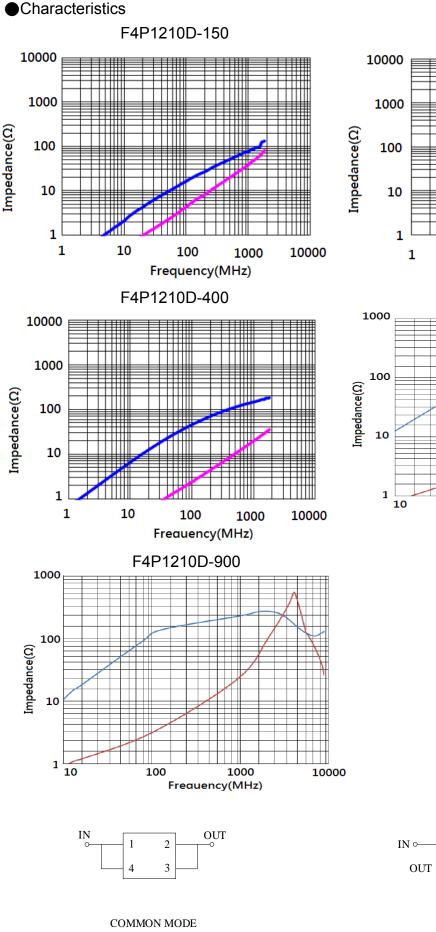
Note1. Measurement ambient temperature of electrical : at 20° C

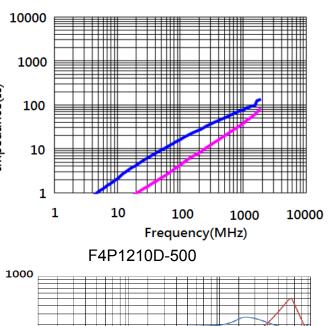
Note2. Test equipment: HP4291A

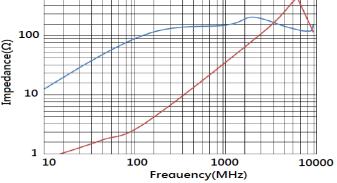
FENG-JUI TECHNOLOGY CO., LTD

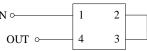
EMI SOLOTION PRODUCTS-RoHS

F4P1210D-250









NORMAL MODE

Your Perfect Inductor

GENERAL CHARACTERISTICS

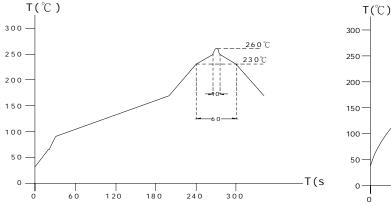
- 1. Operating temperature range: -40 TO + 85°C (Includes temperature when the coil is heated)
- 2. External appearance: On visual inspection, the coil has no external defects.
- 3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.

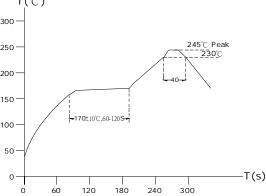
Terminal should not peel off. (refer to figure at right) 0.5kg Min –F4P1210D.

- 4. Insulating resistance: Over $100M\Omega$ 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.
- Temperature characteristics: Inductance coefficient (0~2,000)x10-6/°C (-25~+80°C degree Celsius), inductance deviation within±5.0%, after 96 hours.
- Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2℃ and 1 hour drying under normal condition.
- 8. Vibration resistance: Inductance deviation within ±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 ±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 condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 85°C (after PCB) , Humidity Range: 60% 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





Your Perfect Inductor

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