

F4P3225EL TYPE

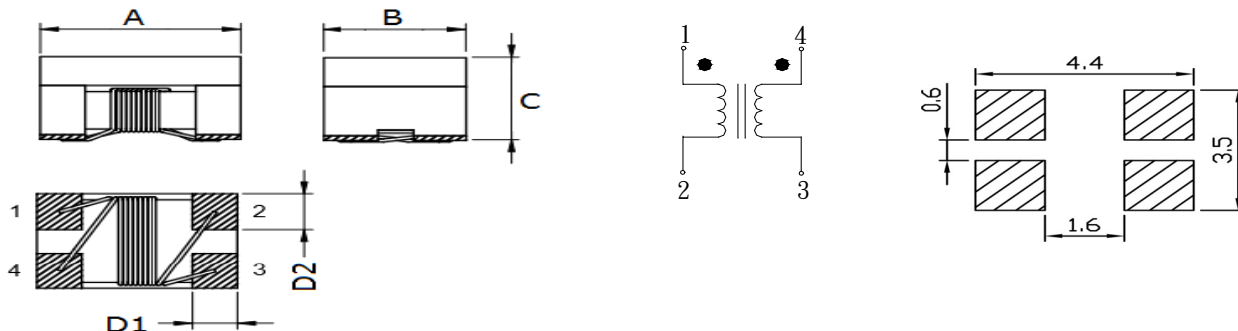
●FEATURE

1. Ideal for use as common-mode chokes

●Applications

1. CAN-BUS, FAXs, modems, ISDNs, etc
2. For automobile signal line

●Shape and Dimension and Schematics and Land Patterns(mm)



A=3.20±0.20 mm ; B=2.50±0.20 mm; C=2.20±0.20 mm; D1=0.80 mm Ref.; D2=0.90 mm Ref.

●Specification

Dimension in mm

PART NO.	Common Mode INDUCTANCE (uH) (+50%/-30%)	Common Mode Impedance(Ω) at 10MHz	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M ohm)	DC Resistance (Max.) (ohm)
F4P3225EL-110	11uH at 100KHz	300Ω Min. 550Ω Typ.	300	80	10 min	0.4
F4P3225EL-220	22uH at 100KHz	500Ω Min. 1100Ω Typ.	250	80	10 min	0.5
F4P3225EL-510	51uH at 100KHz	1000Ω Min. 2600Ω Typ.	200	80	10 min	0.7
F4P3225EL-101	100uH at 100KHz	2000Ω Min. 5100Ω Typ.	150	80	10 min	1.5

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

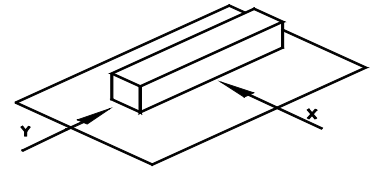
Note2. Test equipment: HP4291A

Note3. Withstand Voltage: 125Vdc

GENERAL CHARACTERISTICS

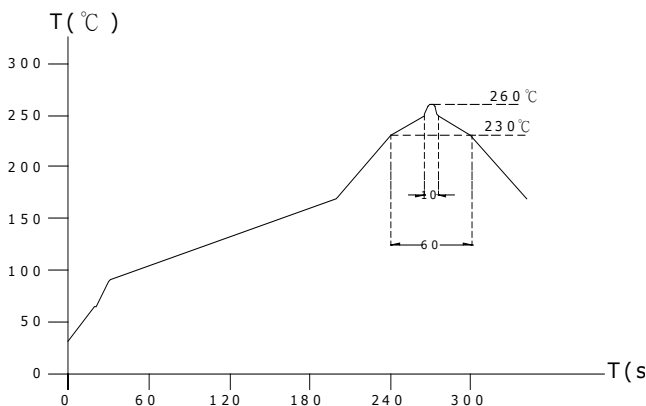
1. Operating temperature range: -40 TO + 125°C(Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 0.5kg Min –F4P3225EL.

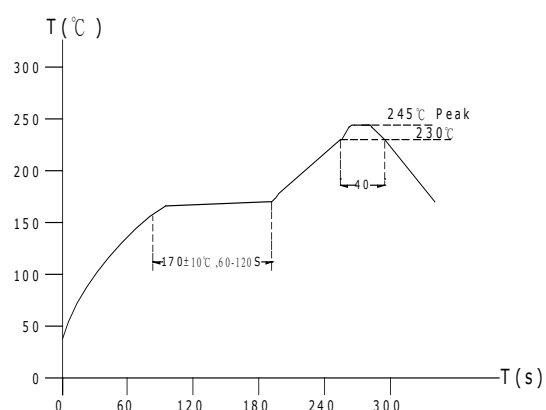


4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C).
7. Humidity characteristics(Moisture 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 condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 125°C (after PCB) · Humidity Range: 50% ~ 70% 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

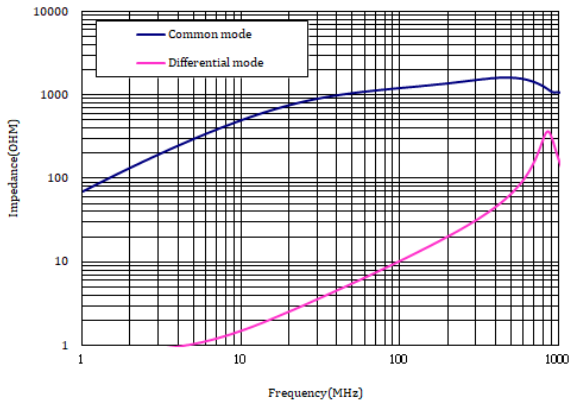


Lead-free the recommended reflow condition

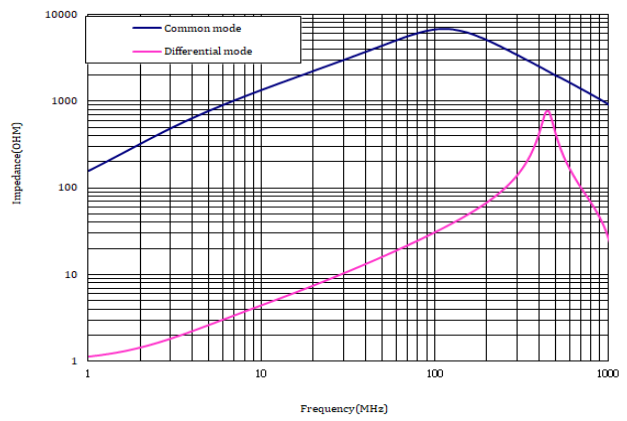


● Impedance curve

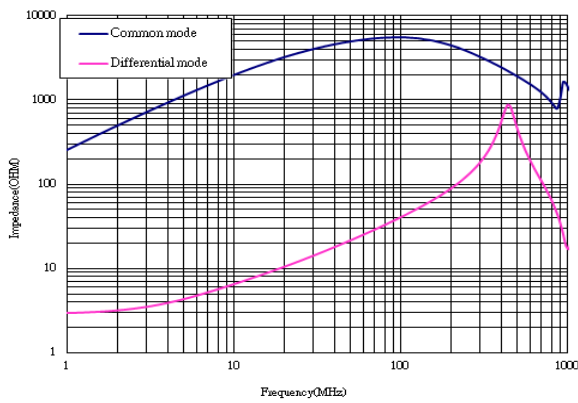
F4P3225EL-110



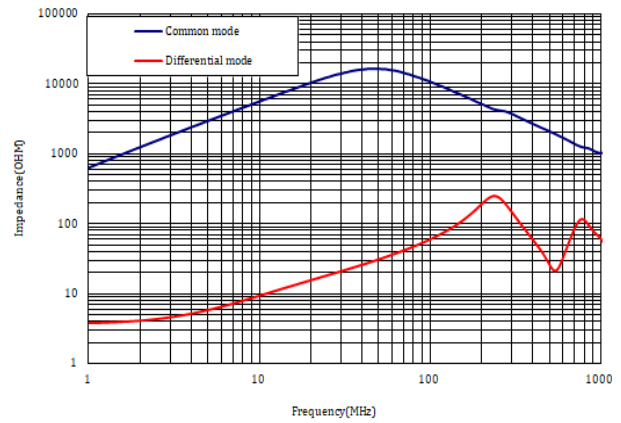
F4P3225EL-220



F4P3225EL-510

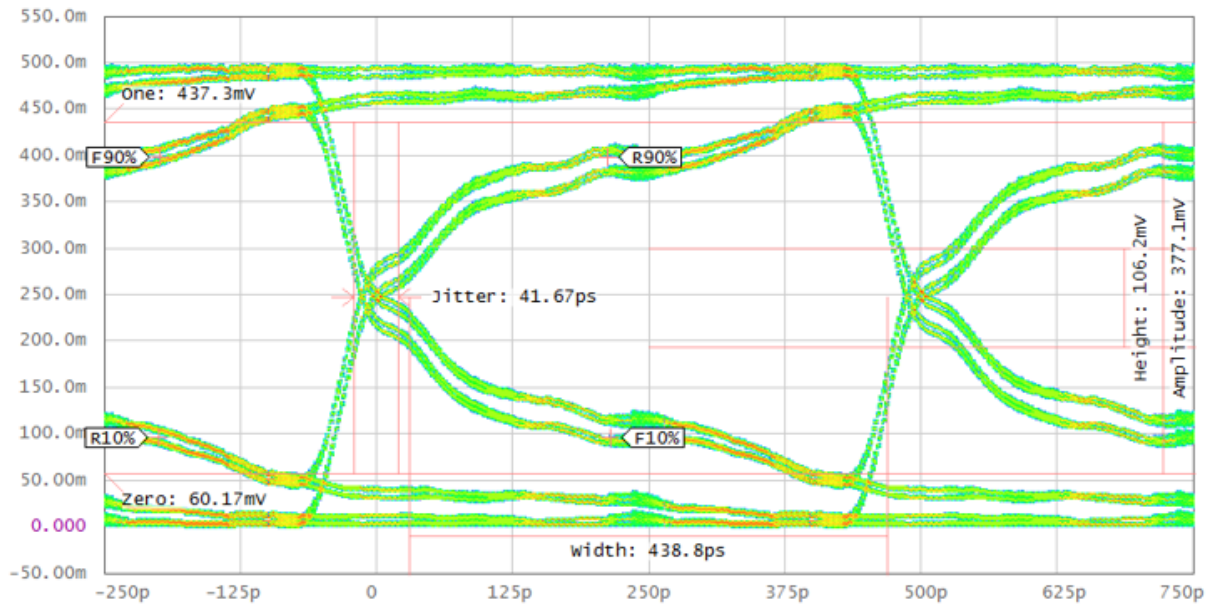


F4P3225EL-101

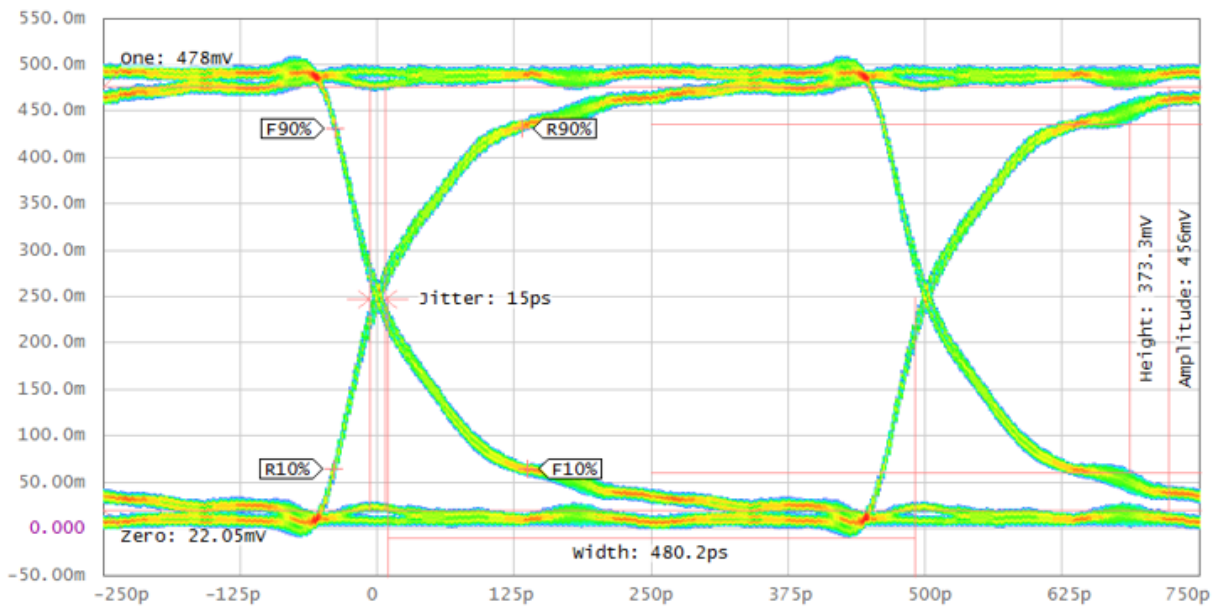


●F4P 3225EL (Eye Digram Graphic)

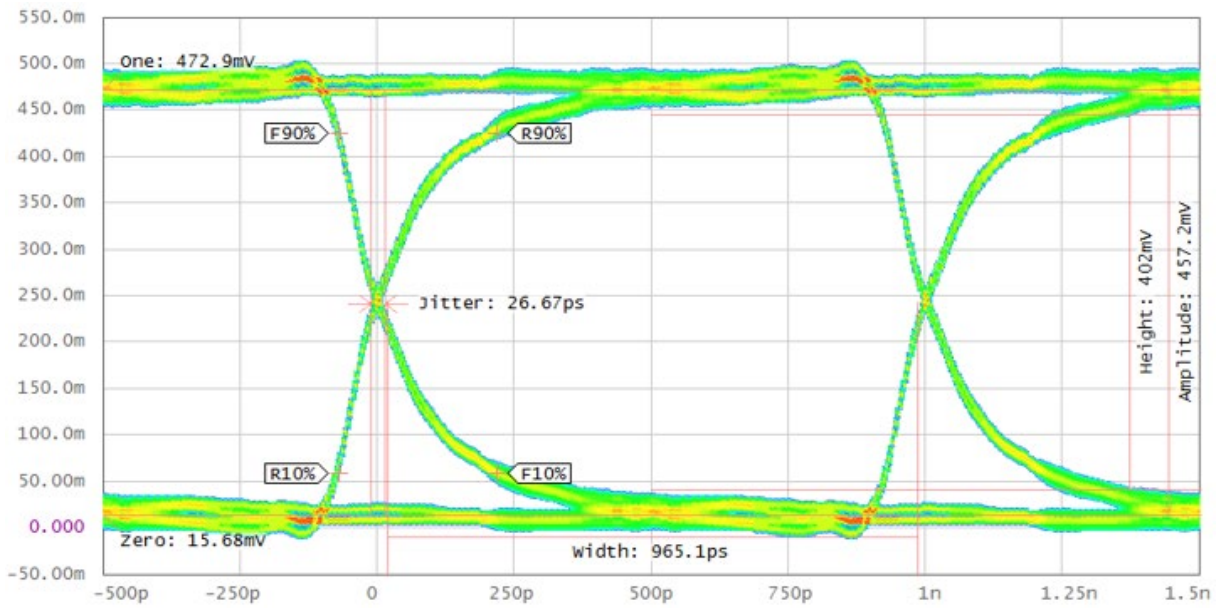
F4P3225EL-110



F4P3225EL-220



F4P3225EL-510



F4P3225EL-101

