F4P3225VT TYPE

●FEATURE

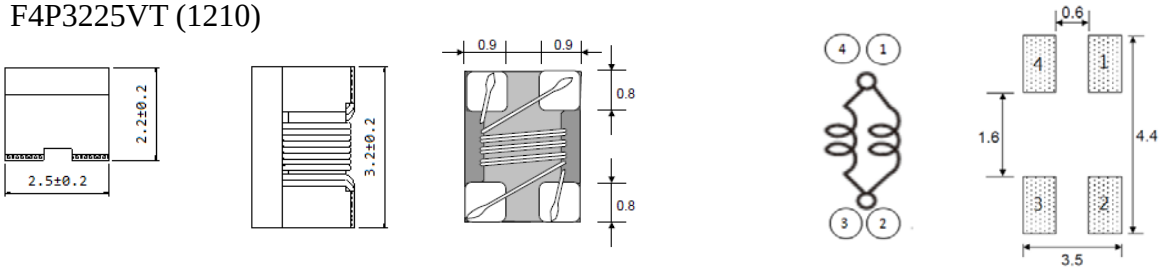
1. For automobile signal line
2. Same as TDK ADL3225VT type

●Applications

1. Inductor for use with separate signal and power lines in in-vehicle PoC (Power Over Coax), etc

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

F4P3225VT (1210)



●Specification

Dimension in m/m

PART NO.	INDUCTANCE (uH) ±20%	Isat Current (mA) typ.	Irms Current (mA) typ.	DC Resistance (max.) (ohm)
F4P3225VT-4R7	4.7uH at 100KHz	720	1500	0.1
F4P3225VT-100	10uH at 100KHz	450	1300	0.15

Note1. Measurement ambient temperature of electrical : at 20℃

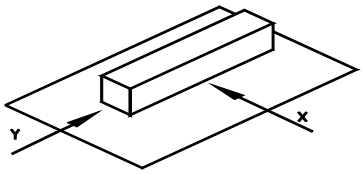
Note2. Isat: DC current at which the inductance drops 30%(typ) from its value without current

Note3. Irms: Average current for 40℃ temperature rise from 25℃ ambient(typical)

Note4. Test equipment: HP4291A

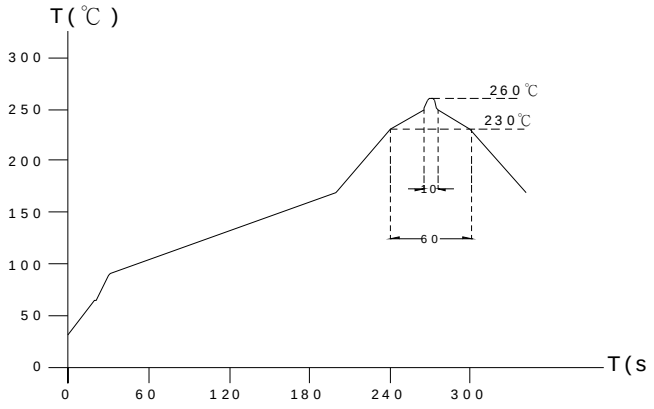
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 125℃(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 –F4P3225VT.



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 (0~2,000)x10-6/℃(-25~+80℃).
7. 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℃, 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10℃ ~ 35℃ (Generally: 21℃ ~ 31℃) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35℃ ~ 85℃ , 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

