

F4P2012BT-750 TYPE

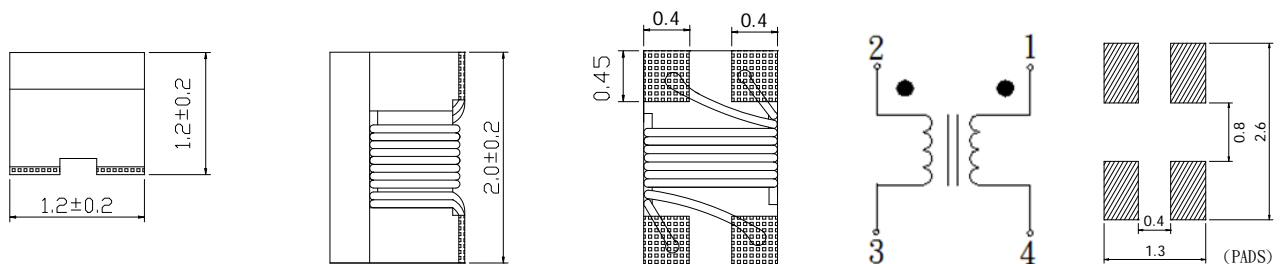
●FEATURE

1. Chip balun transformer developed for impedance system
2. The impedance ratio is 1:1
3. The frequency band width is 40MHz to 1.2GHz (Standard IL :0.8db)
4. Same as TDK ATB-2012-75011 type

●Applications

1. STB/tuner power divider

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



●Specification

Dimension in m/m

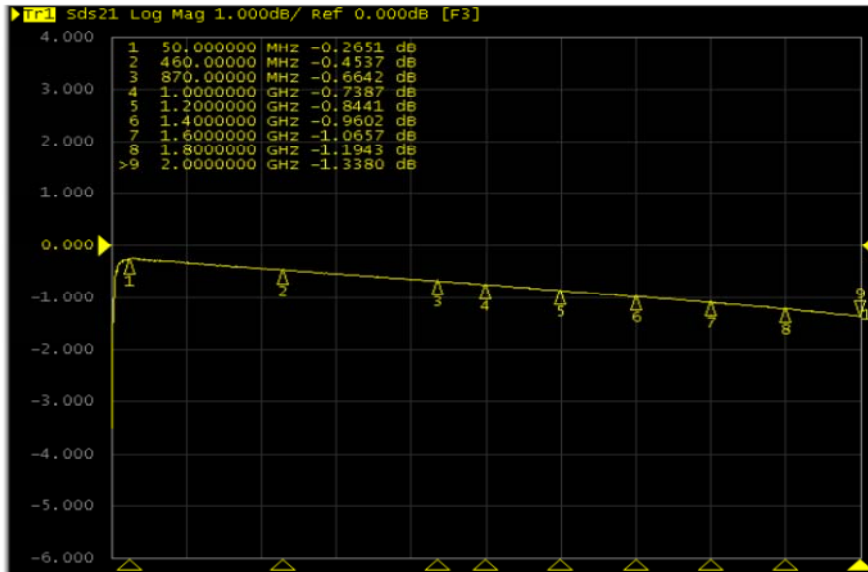
PART NO.	Frequency rate (MHz)	UB/B Impedance (Ω)	Insertion loss (dB)	CMRR (min)	Rated current (mA)	Rated Voltage (V)	DC Resistance (Ω)	Withstand Voltage (Vdc)	Insulation Resistance ($M\Omega$)
F4P2012BT-750	40 to 1200	75/75	1.2 max(0.8 typ.)	20	280	20	0.7	125	10

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

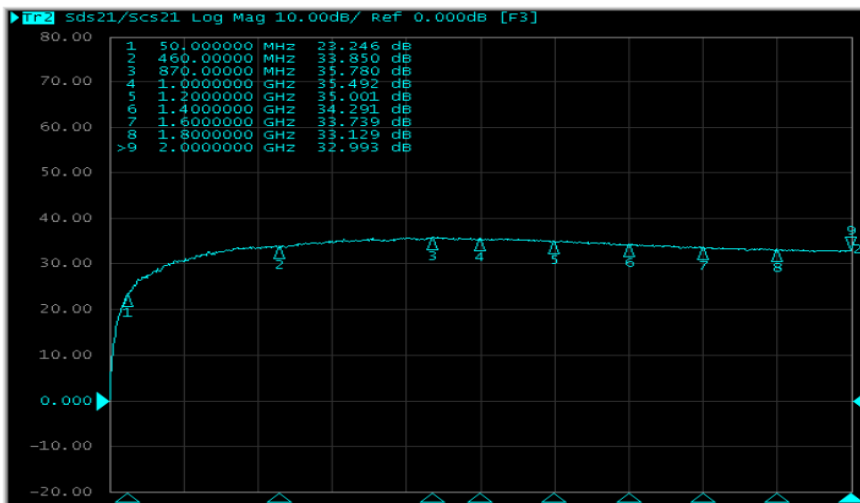
Note2. Test equipment: E5071B, 4339A

●Electrical Curve

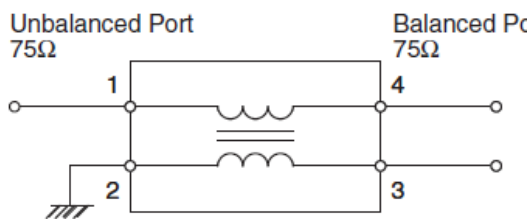
Insertion loss curve



CMRR curve

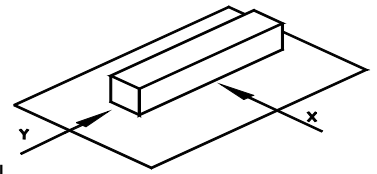


●Circuit diagram

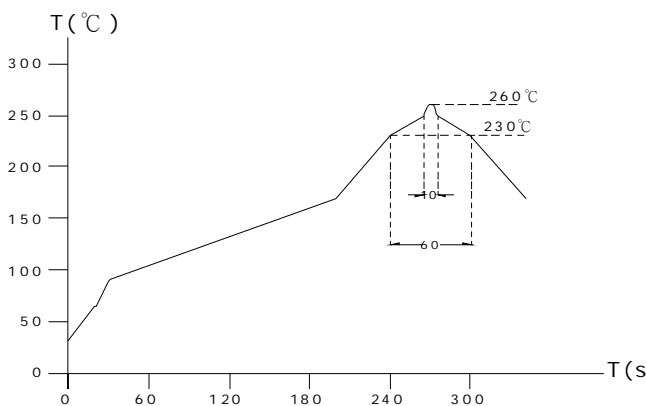


GENERAL CHARACTERISTICS

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 –F4P2012.
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 soldarability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

