

Thin Film Chip Baluns

For DVB-H/T and ISDB-T

Conformity to RoHS Directive

TTB Series TTB08G51

FEATURES

- This is an optimal, thin film chip balun transformer for 50 to 50Ω with low loss at DVB-H/T and ISDB-T frequency bands(174 to 860MHz).
- Does not contain lead and is compatible with lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

Balanced/unbalanced conversion for DVB-H/T and ISDB-T radio frequency inputs

PRODUCT IDENTIFICATION

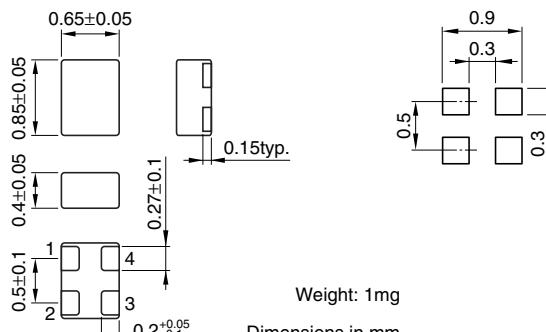
TTB 08 G51 - 350 - 2P - T 20
 (1) (2) (3) (4) (5) (6) (7)

- (1) Series name
- (2) Case size
- (3) Product identification number
G51: $Z_0=50\Omega$
- (4) Common mode impedance
350: 35Ω [at 100MHz]
- (5) Number of line
2P: 2-line
- (6) Packaging style
T: ø180mm reel taping
- (7) TDK internal code

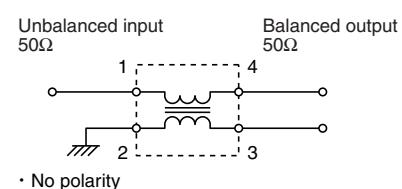
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	10000 pieces/reel

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

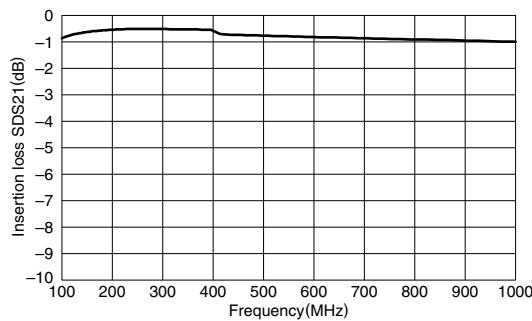
Part No.	TTB08G51-350-2P	
Characteristics impedance	50Ω typ.	
DC resistance [1 line]	1.5Ω max.	
Rated current Idc	0.1A max.	
Rated voltage Edc	10V max.	
Insulation resistance	10MΩ min.	
Amplitude balance at balanced port [174 to 860MHz]	0±2.0dB	
Phase balance at balanced port [174 to 860MHz]	180±30deg.	
Insertion loss [174MHz]	0.6dB typ.	
	[860MHz]	1.0dB typ.
Operating temperature ranges	-25 to +85°C	

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

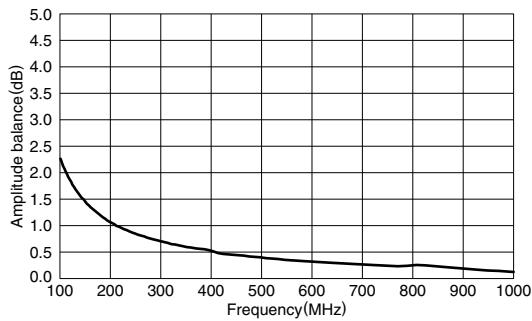
- All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

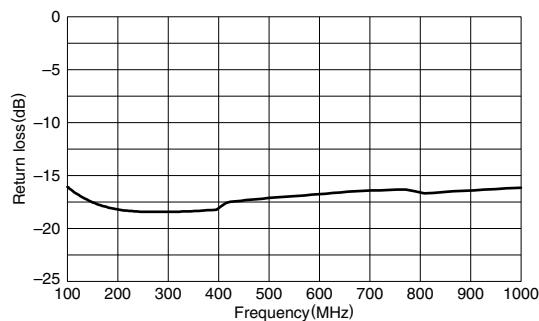
INSERTION LOSS



AMPLITUDE BALANCE at BALANCED PORT



RETURN LOSS



PHASE BALANCE at BALANCED PORT

