公TDK

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	80	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 Ω
- (4) Common mode impedance 350: 35Ω [at 100MHz]
- (5) Number of line

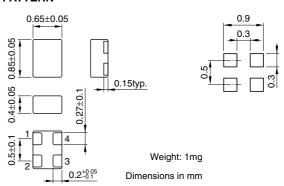
2P: 2-line

- (6) Packaging style
 - T: ø180mm reel taping
- (7) TDK internal code

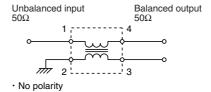
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	10000 pieces/reel

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM



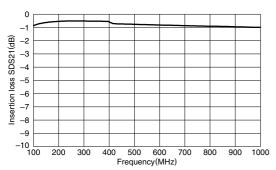
ELECTRICAL CHARACTERISTICS

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		10M Ω 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.
insertion ioss	[860MHz]	1.0dB typ.
Operating temperature ranges	−25 to +85°C	

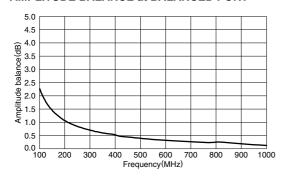
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- All specifications are subject to change without notice.

ATDK

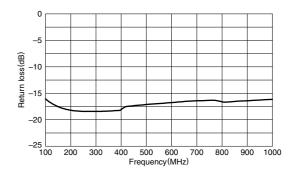
FREQUENCY CHARACTERISTICS INSERTION LOSS



AMPLITUDE BALANCE at BALANCED PORT



RETURN LOSS



PHASE BALANCE at BALANCED PORT

