

Thin Film Chip Baluns For DVB-H/T and ISDB-T

Conformity to RoHS Directive

TTB Series TTB12G51

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

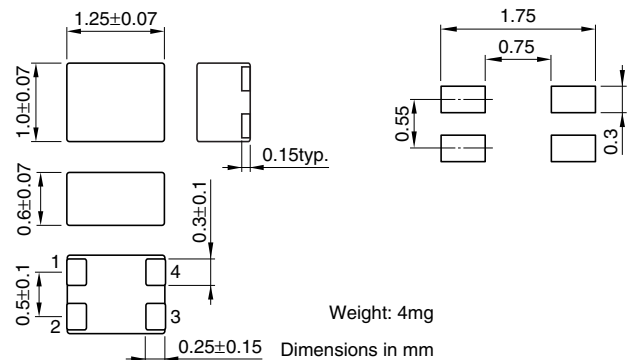
TTB	12	G51	- 900	- 2P	- T	20
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
 (2) Case size
 (3) Product identification number
 G51: $Z_0=50\Omega$
 (4) Common mode impedance
 900: 90Ω [at 100MHz]
 (5) Number of line
 2P: 2-line
 (6) Packaging style
 T: $\phi 180\text{mm}$ reel taping
 (7) TDK internal code

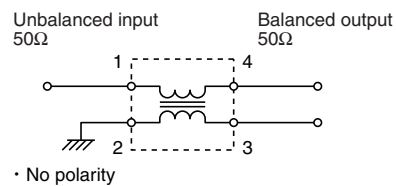
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

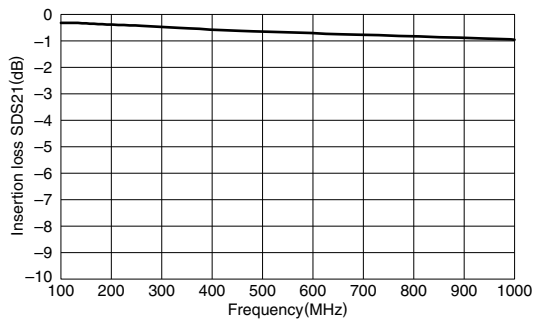
Part No.	TTB12G51-900-2P
Characteristics impedance	50Ω typ.
DC resistance [1 line]	1.7Ω max.
Rated current I_{dc}	0.1A max.
Rated voltage E_{dc}	10V max.
Insulation resistance	10MΩ min.
Amplitude balance at balanced port [174 to 860MHz]	0±1.5dB
Phase balance at balanced port [174 to 860MHz]	180±15deg.
Insertion loss [174MHz]	0.5dB typ.
[860MHz]	0.7dB 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.

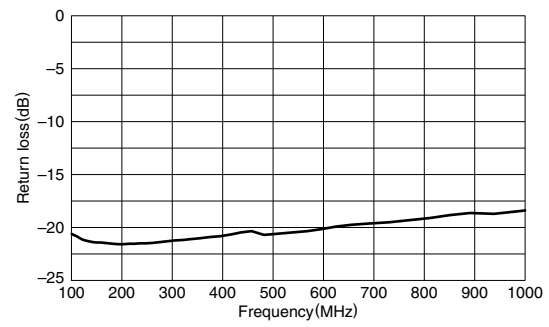
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

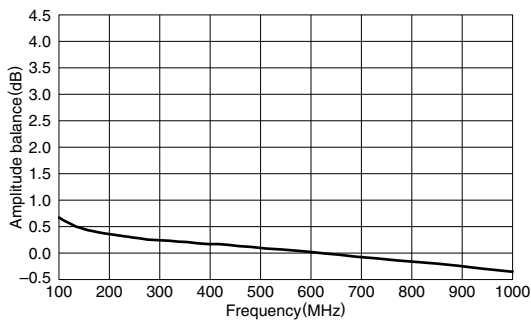
INSERTION LOSS



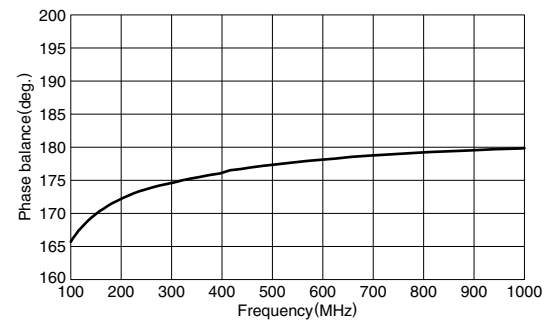
RETURN LOSS



AMPLITUDE BALANCE at BALANCED PORT



PHASE BALANCE at BALANCED PORT



AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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