

Balun Transformer(8-600MHz)

Features

- Surface mount
- Impedance ratio: 1:2
- RoHS compliant and Pb free
- Available on tape and reel
- Centre tap on secondary

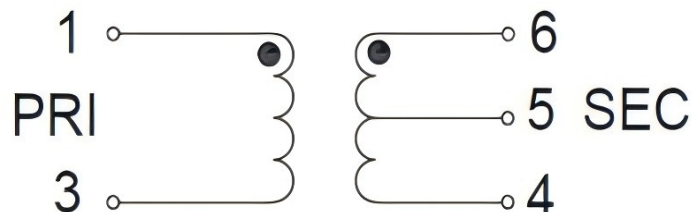
Description

SCOPE

- MCBT2-1-358 is a 1:2 balun transformer in a SMT package.

APPLICATIONS

- Ideally suitable for CATV broadband applications.

Functional Schematic**Pin Configuration**

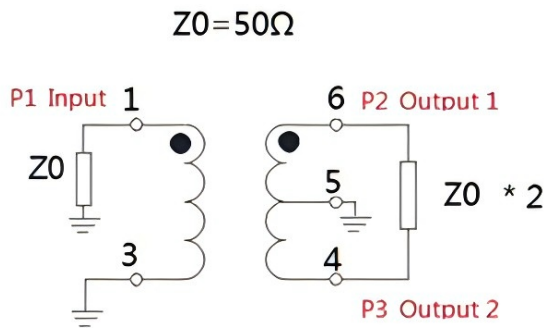
Pin #	Function	Pin #	Function
1	Primary	4	Secondary Dot
2	NOT USED	5	Secondary CT
3	Primary Dot	6	Secondary

ELECTRICAL SPECIFICATIONS@-40°Cto 105°C

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			50/50/50		Ohm
Insertion Loss	8-600MHz		1.5	3.0	dB
	10-400MHz		0.9	2.0	dB
	13-300MHz		0.7	1.0	dB
	20-100MHz		0.5	0.7	dB
Return Loss	8-600MHz		11.0		dB
	10-400MHz		13.0		dB
	13-300MHz		16.0		dB
	20-100MHz		18.0		dB
Amplitude UnBalance	8-600MHz		1.2	2.0	dB
	10-400MHz		0.4	1.0	dB
	13-300MHz		0.2	0.5	dB
	20-100MHz		0.0	0.2	dB
Phase UnBalance	8-600MHz		3	5	°
	10-400MHz		1.4	3	°
	13-300MHz		0.5	1	°
	20-100MHz		0.2	0.6	°

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Application & Test Circuit

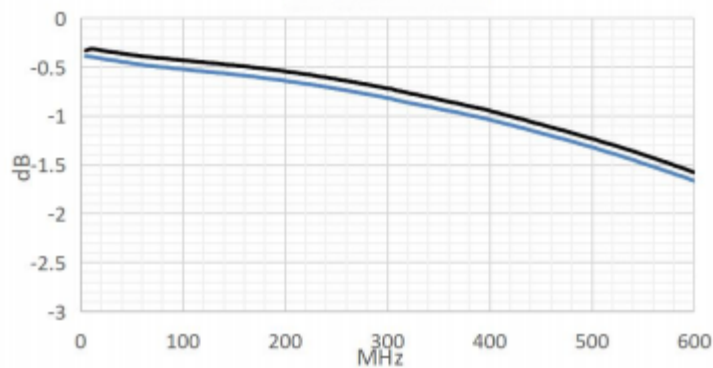


Absolute Maximum Ratings

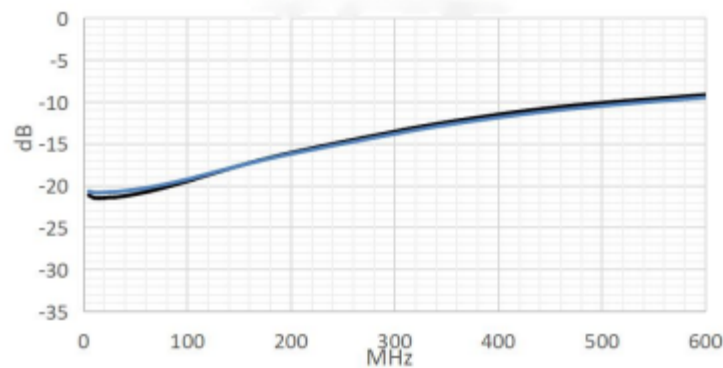
Parameter	Value
RF Power	1W
DC Current	30mA
Operating Temperature Range	-40 to 105°C

Test Curve(25°C & 105°C)

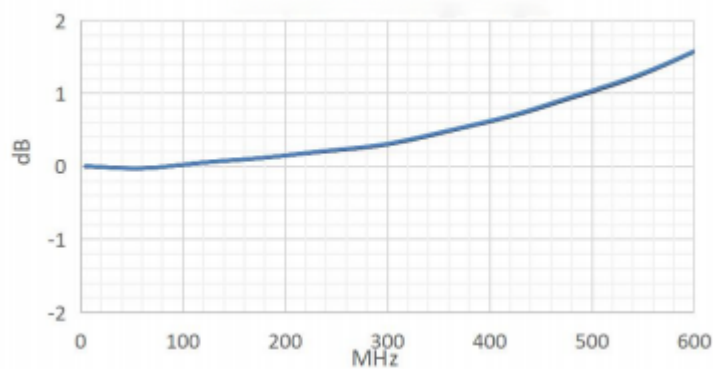
Insertion Loss



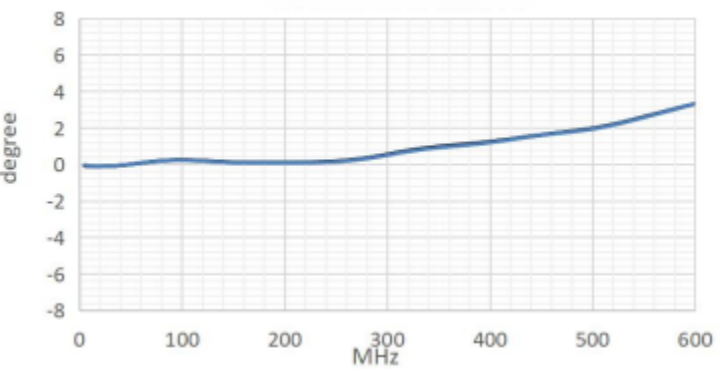
Input Return Loss



Applitude UnBalance

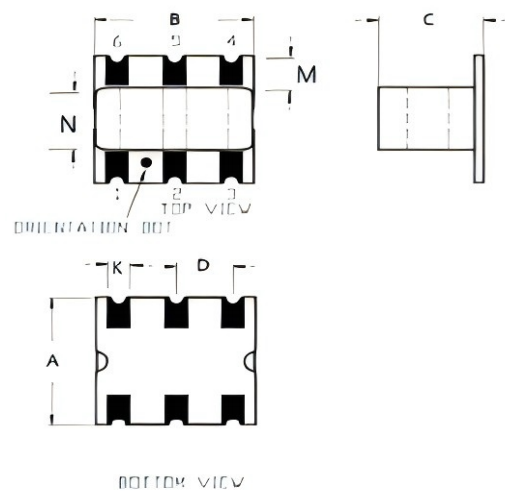


Phase UnBalance

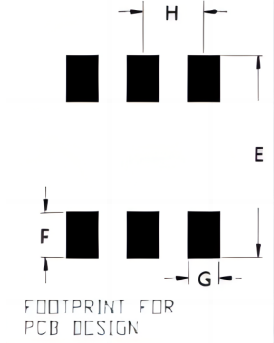


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Dimensions



Land Pattern



A	B	C
6.35	7.15	2.70
D	K	M
2.54	1.02	1.70
N		
2.60		

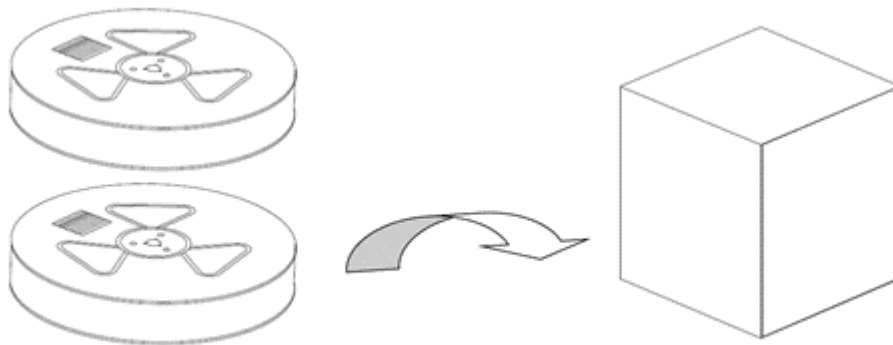
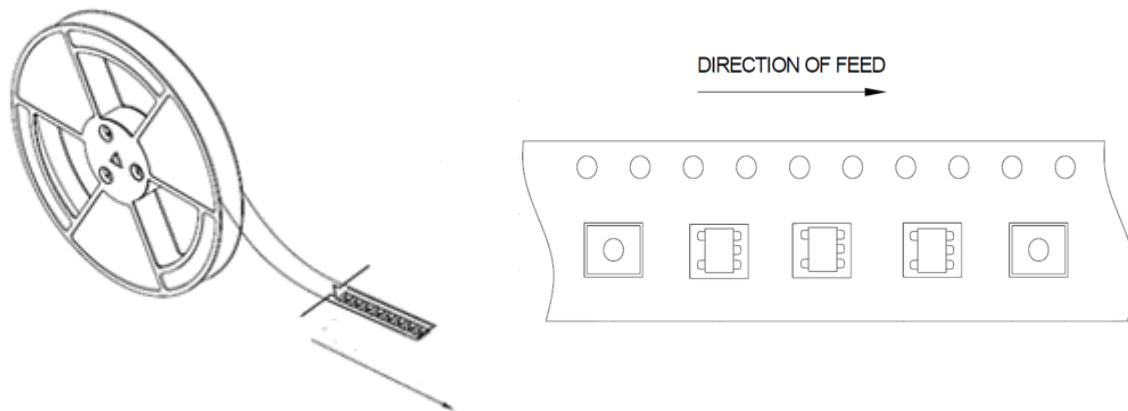
E	F	G
7.62	1.75	1.27
H		
2.54		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

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Packing



Ten Reel

Export Carton

Quantity per reel: 900 pcs

Quantity per export carton: 9000 pcs