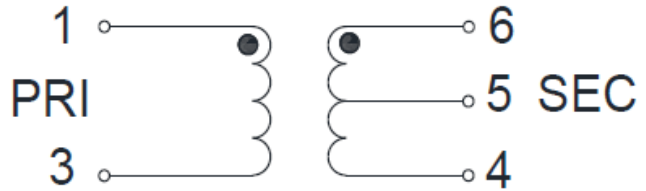


Balun Transformer(3-300MHz)

Features

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

Functional Schematic



Description

SCOPE

- MCBT2-1-077 is a 1:2 balun transformer in a SMT package.

APPLICATIONS

- Ideally suitable for CATV broadband applications.

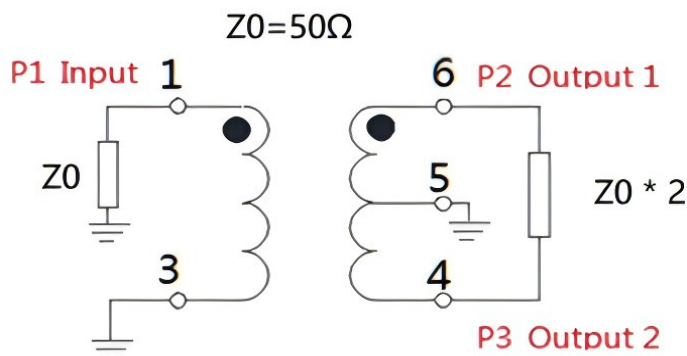
Pin Configuration

Pin #	Function	Pin #	Function
1	Primary Dot	5	Secondary Centre Tap
3	Primary	6	Secondary Dot
4	Secondary		

ELECTRICAL SPECIFICATIONS@25°C

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z ₀ (P1 / P2 / P3)			50/50/ 50		Ohm
Insertion Loss	3-300MHz		1.0	1.5	dB
Return Loss	3-300MHz	10.0	15.0		dB
Amplitude Balance	3-300MHz		0.4	±0.8	dB
Phase Balance(ref value 180°)	3-300MHz		3	±7	°

Application & Test Circuit



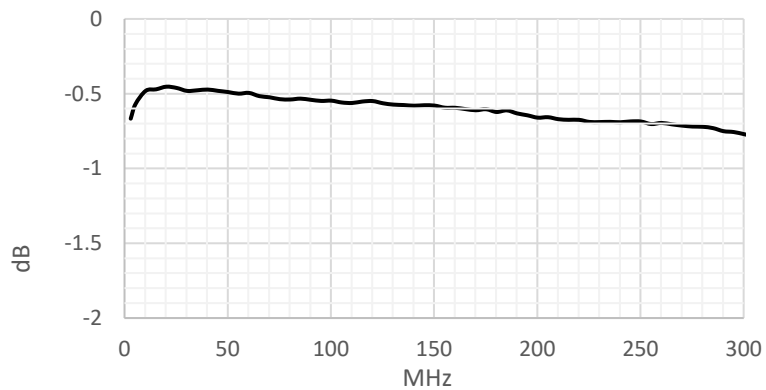
Absolute Maximum Ratings

Parameter	Value
RF Power	250mW
DC Current	240mA
Operating Temperature Range	-40 to 85°C

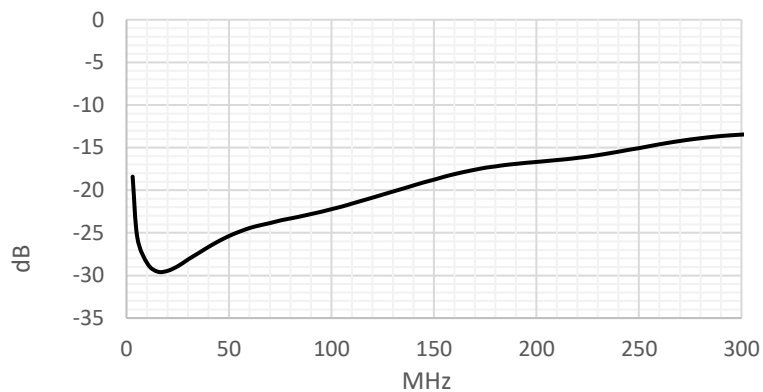
Balun Transformer(3-300MHz)

Test Curve

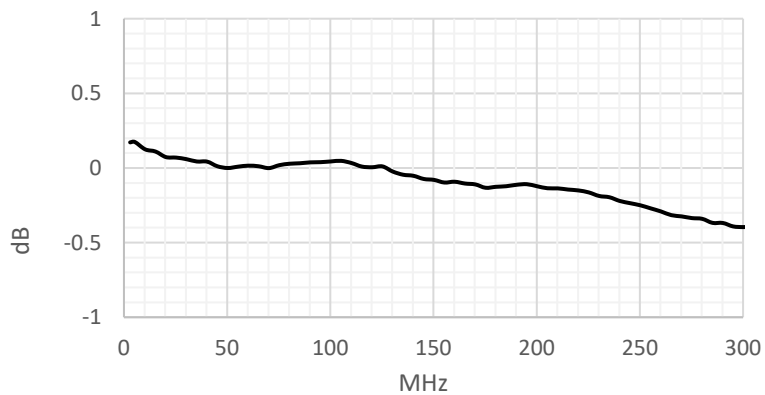
Insertion Loss



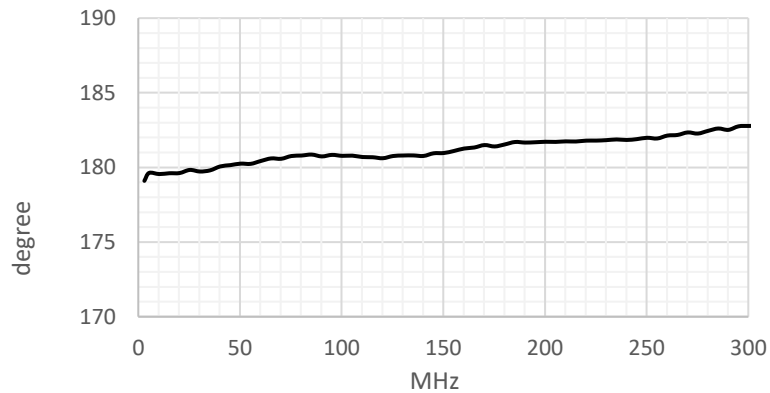
Input Return Loss



Amplitude Balance

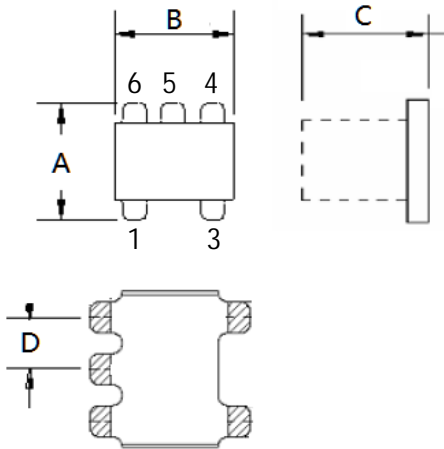


Phase Balance

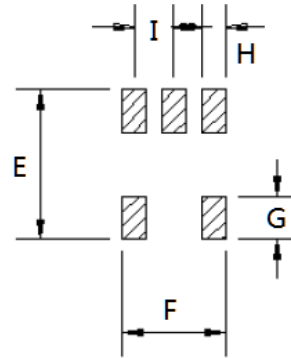


Balun Transformer(3-300MHz)

Dimensions



Land Pattern



A	B	C
3.81	3.81	2.90
D		
1.27		

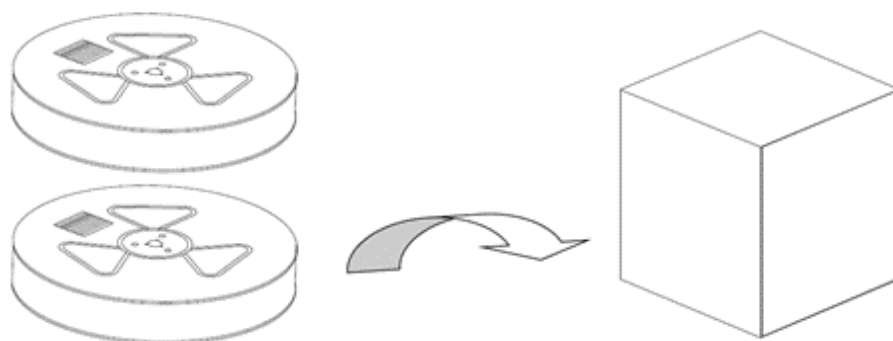
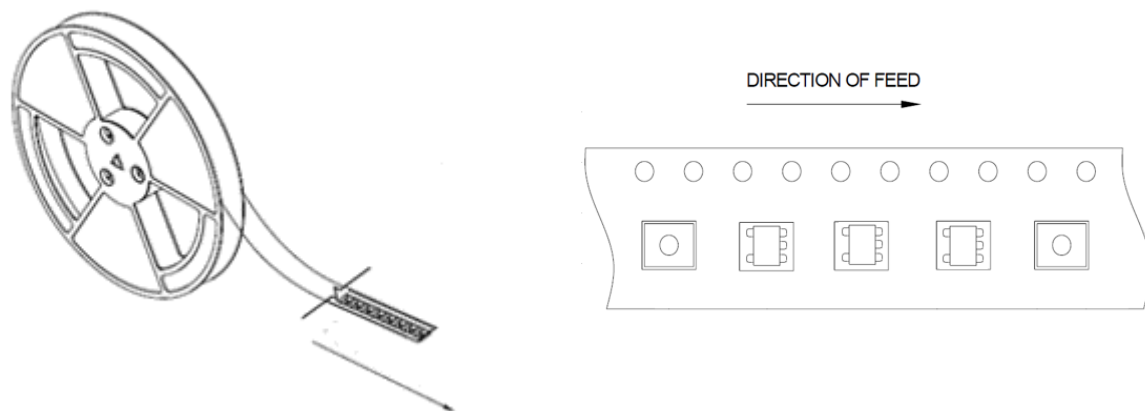
E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

Balun Transformer(3-300MHz)

Packing



Ten Reel

Export Carton

Quantity per reel: 2000 pcs

Quantity per export carton: 20000 pcs