

Balun Transformer(2-1000MHz)

Features

- Surface mount
- Impedance ratio: 1:4
- Available on tape and reel
- RoHS compliant and Pb free

Description

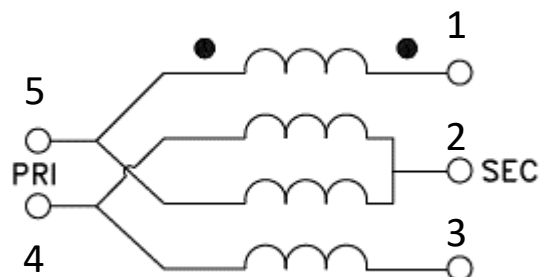
SCOPE

- MCBT4-1-149 is a 1:4 balun transformer in a SMT package.

APPLICATIONS

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS,MMDS

Functional Schematic



Pin Configuration

Pin #	Function	Pin #	Function
1	Secondary Dot	4	Primary
2	Secondary CT	5	Primary Dot
3	Secondary		

Absolute Maximum Ratings

Parameter	Value
Input Power	250mW MAX
DC Current	30mA MAX
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-55 to 100°C

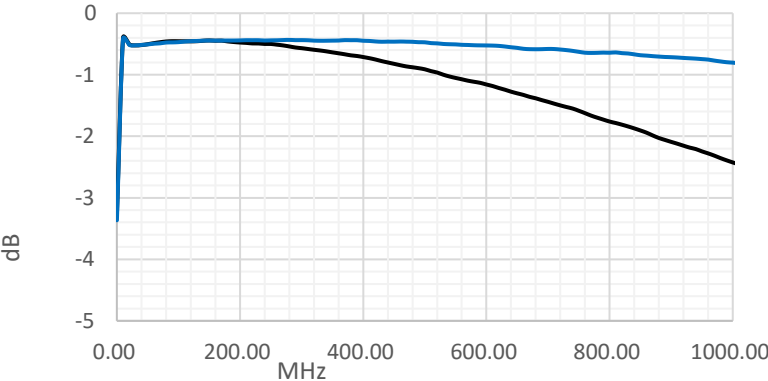
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ELECTRICAL SPECIFICATIONS@25°C

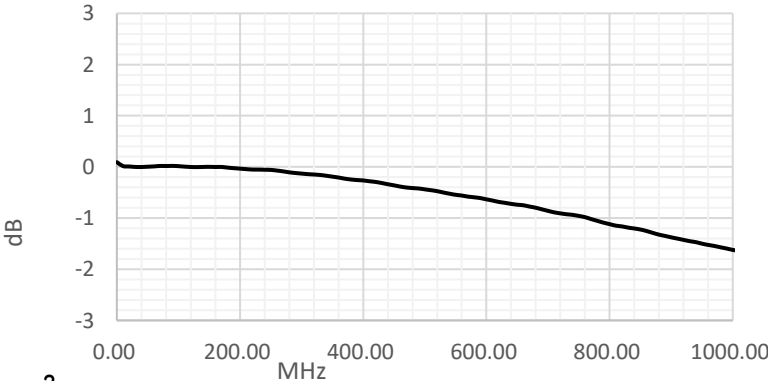
Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0			50		Ohm
Insertion Loss	5.0 - 250 MHz		0.4	1.0	dB
	3.0 - 500 MHz		0.9	2.0	dB
	2.5 - 700 MHz		1.4	3.0	dB
	2.0 - 1000 MHz		2.4	4.0	dB
Amplitude Unbalance	2.0 - 300 MHz		0.1	0.30	dB
	300 - 1000 MHz		1.5	2.00	dB
Phase Unbalance	2.0 - 300 MHz		1.0	5.00	Deg
	300 - 1000 MHz		2	20	Deg

Test Curve

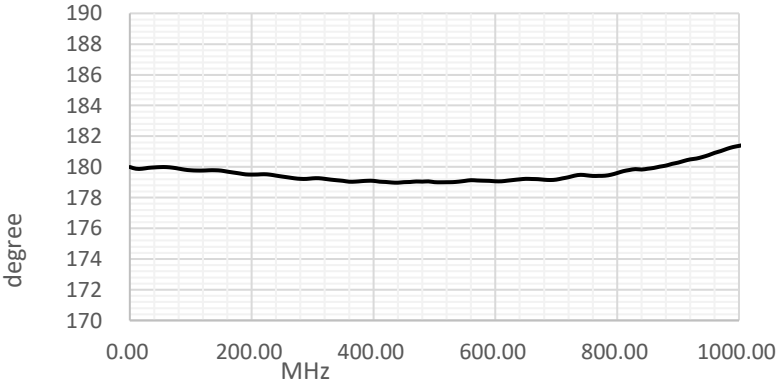
Insertion Loss: Pin 4 to 3 & Pin4 to 1



Amplitude Balance

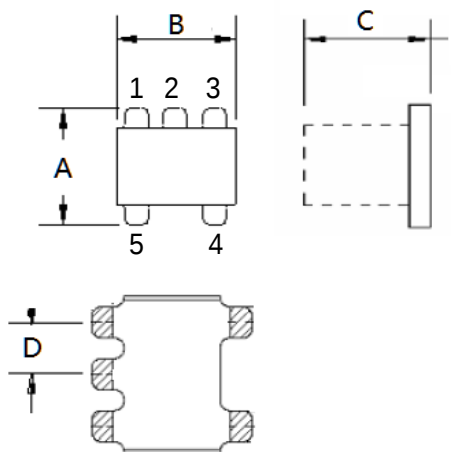


Phase Im Balance



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Dimensions

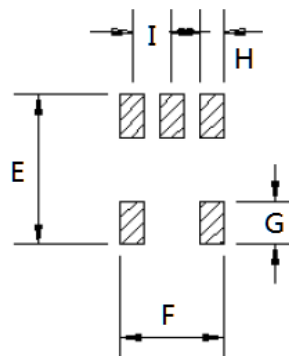


A	B	C
3.81	3.81	2.72
D		
1.27		

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

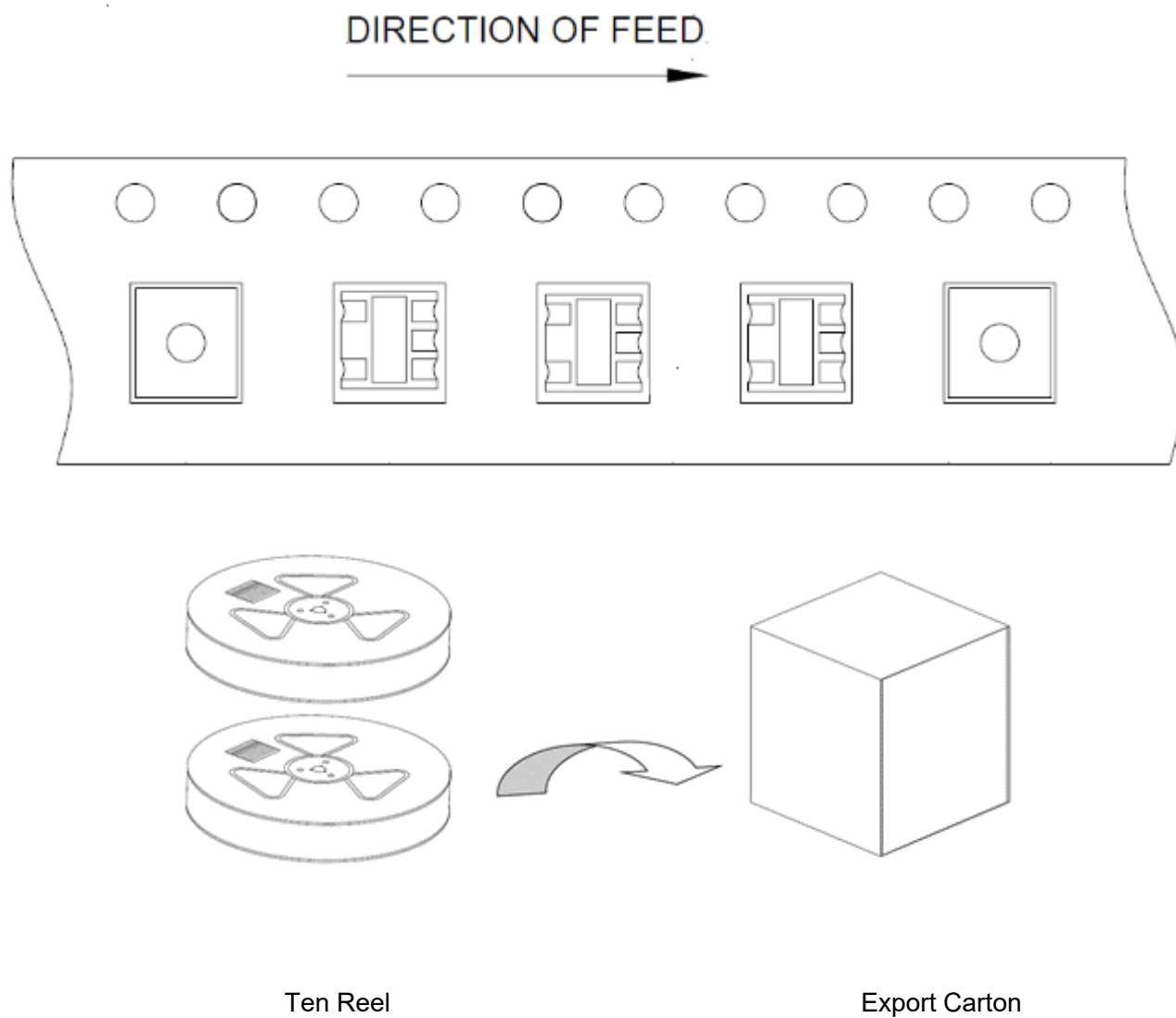
Land Pattern



E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

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Packing



Quantity per reel: 2000 pcs

Quantity per export carton: 20000 pcs