

Transmission Line Transformer(1700-6700MHz)

Features

- Surface mount
- Impedance ratio: 1:2
- RoHS compliant and Pb free
- Available on tape and reel
- 260°C reflow compatible

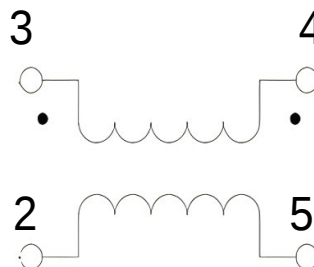
Description**SCOPE**

- MCTLT2-1-269 is a 1:2

Transmission Line transformer in a SMT package.

APPLICATIONS

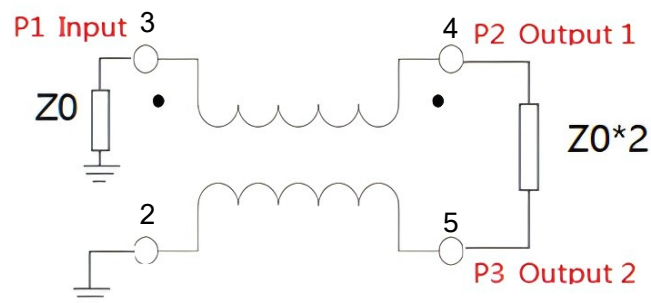
- Ideally suited for high volume cellular and wireless application.

Functional Schematic**Pin Configuration**

Pin #	Function	Pin #	Function
1	Not Used	4	Secondary Dot
2	Primary	5	Secondary
3	Primary Dot	6	Not Used

ELECTRICAL SPECIFICATIONS@25°C

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z ₀ (P1 / P2 / P3)			50/ 25/ 25		Ohm
Insertion Loss	1700-6700MHz		1.6	2.5	dB
Amplitude Balance	1700-6700MHz		0.8		dB
Phase Unbalance	1700-6700MHz		6		°

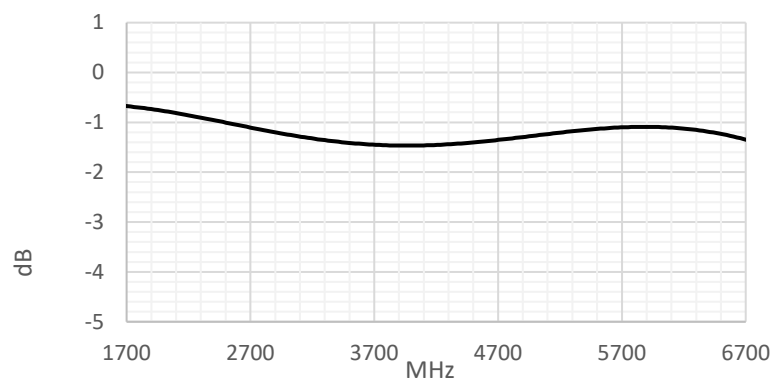
Application & Test Circuit**Absolute Maximum Ratings**

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

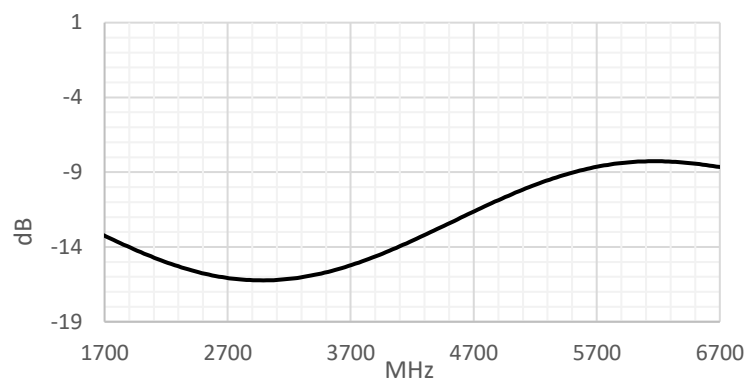
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Test Curve

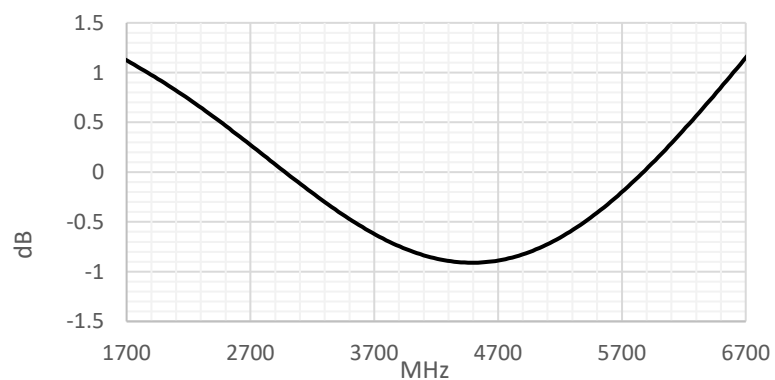
Insertion Loss



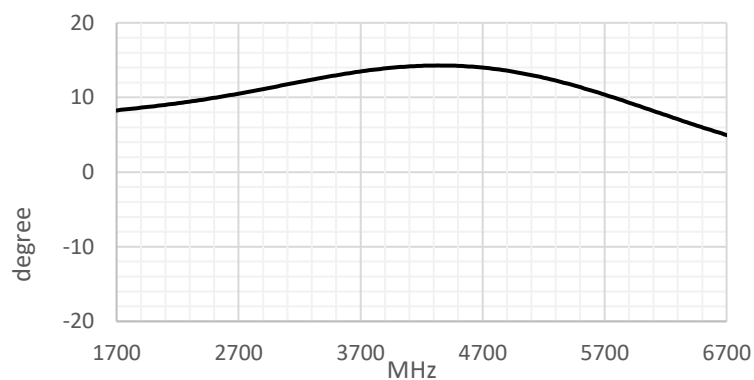
Return Loss



Applitude Balance

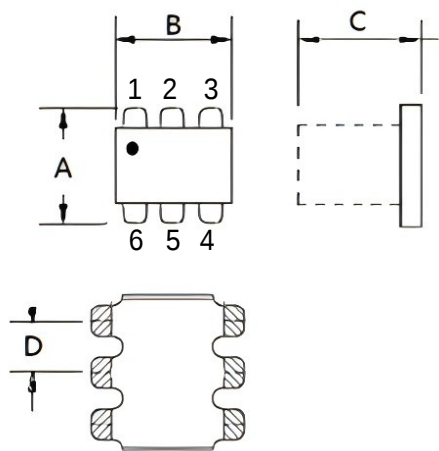


Phase Balance

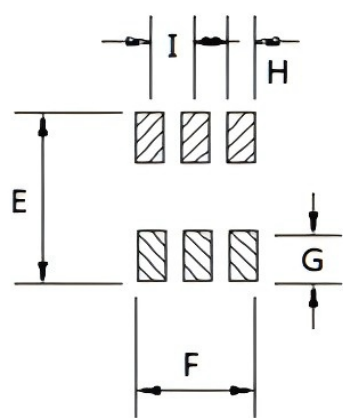


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Dimensions



Land Pattern



A	B	C
3.81	3.81	2.80
D		
1.27		

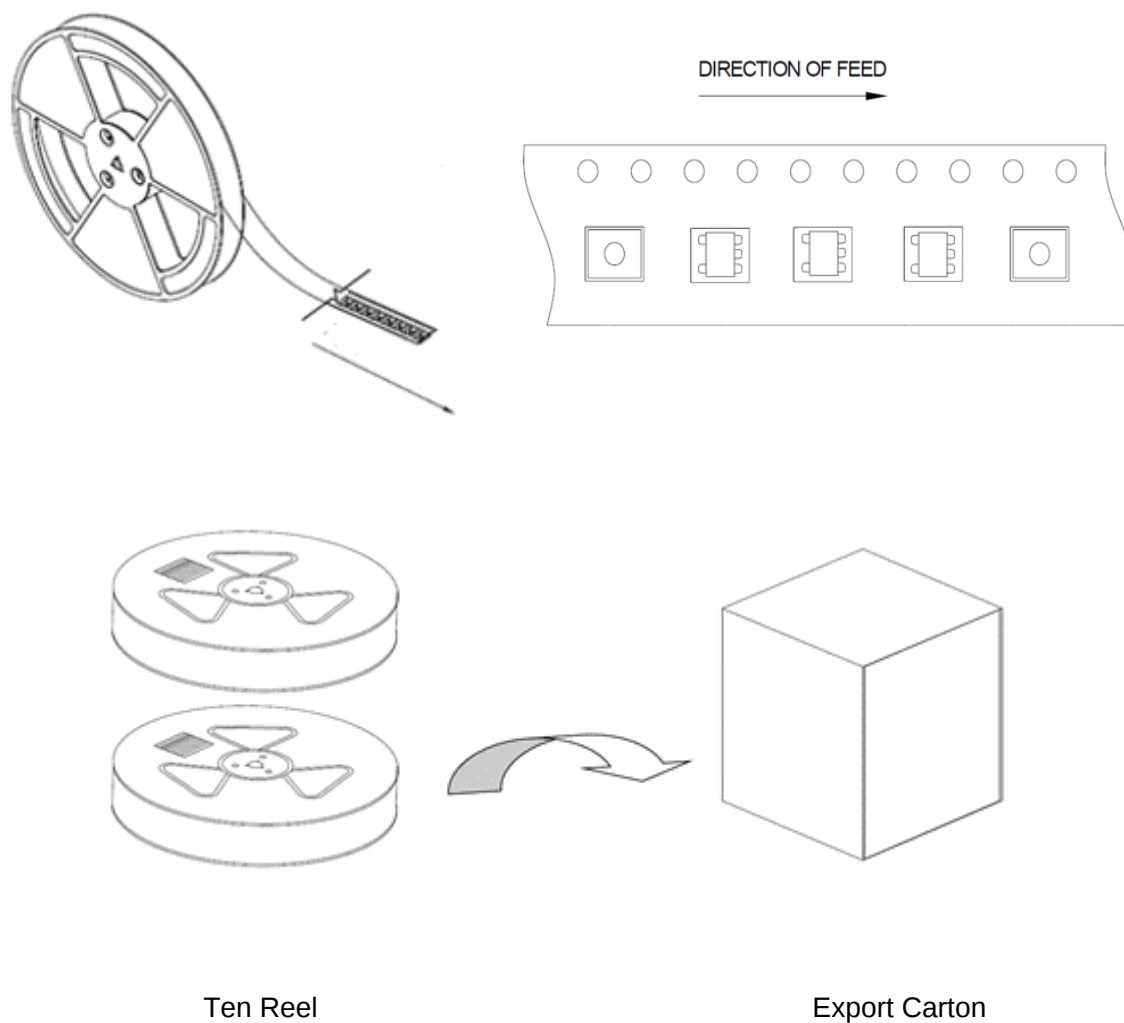
E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

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Packing



Quantity per reel: 2000 pcs

Quantity per export carton: 20000 pcs