

Features

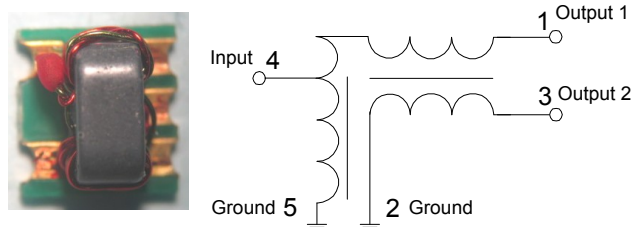
- Surface Mount Package
- 1:2 Impedance
- RoHS* Compliant
- 260°C Reflow Compatible
- Tape and Reel Package

Description

The MABA-010247-2R1250 is a RoHS compliant 1:2 RF transmission line transformer in a surface mount package. The windings of this device are welded to the package substrate for improved reliability and to eliminate lead content.

Ideally suited for high volume cellular and wireless application.

Functional Schematic



Pin Configuration

Pin #	Function
1	Secondary
2	Ground
3	Secondary Dot
4	Primary Dot (Input)
5	Primary (Ground)

Electrical Specifications: Freq. = 1 - 1600 MHz, T_A = 25°C, Z₀ = 50 Ω, P_{IN} = 0 dBm

Parameter	Test Conditions Frequency (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	1 - 750	dB	—	1.0	—
	750 - 1250			1.5	2.5
	1250 - 1600			2.0	4.0
Input Return Loss	1 - 500	dB	20	30	—
	500 - 1600		10	15	
Amplitude Unbalance	1 - 1250	dB	—	0.5	1.0
	1250 - 1600			1.0	1.2
Phase Unbalance	1 - 1600	°	—	5	10

Ordering Information

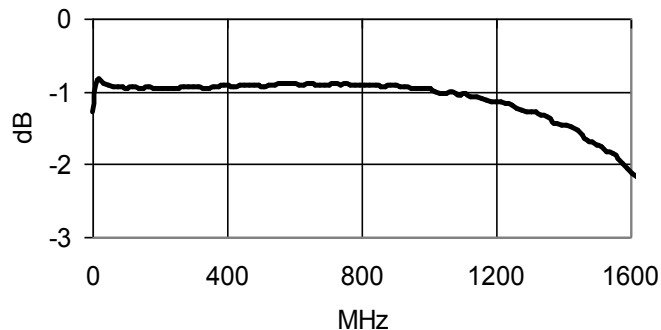
Parameter	Package
MABA-010247-2R1250	2000 piece reel

Absolute Maximum Ratings

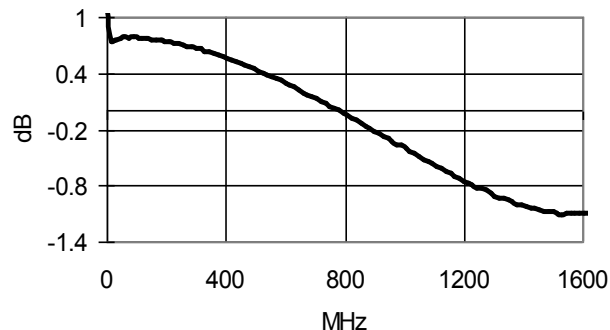
Parameter	Absolute Maximum
RF Input Power	250 mW
DC Current	50 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Typical Performance: $T_A = 25^\circ\text{C}$

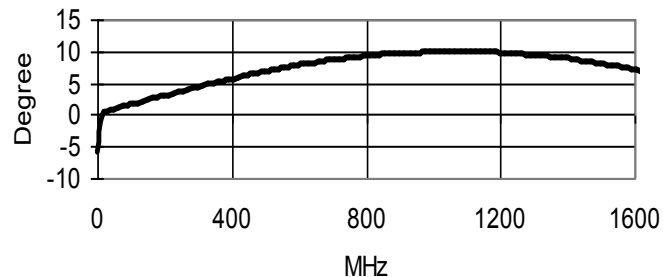
Insertion Loss



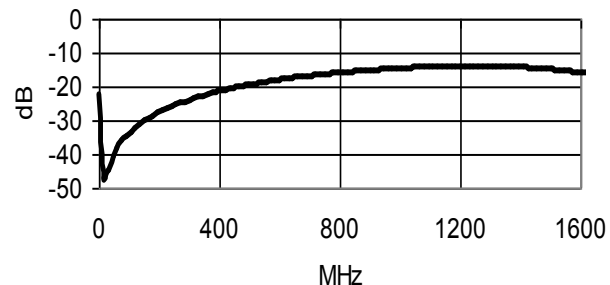
Amplitude Unbalance



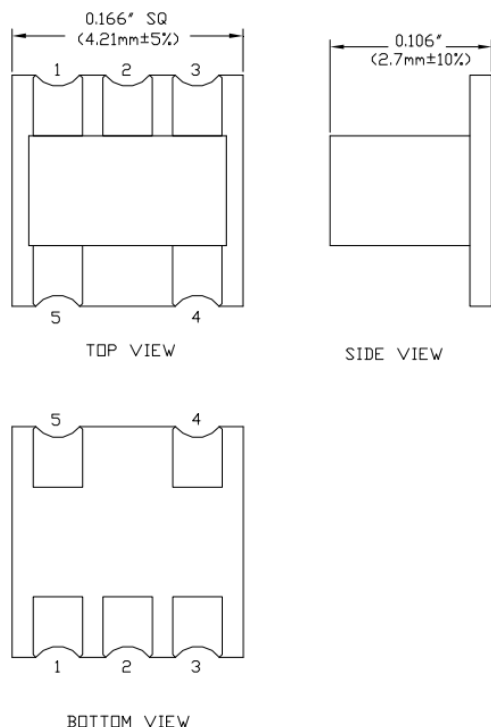
Phase Unbalance



Input Return Loss

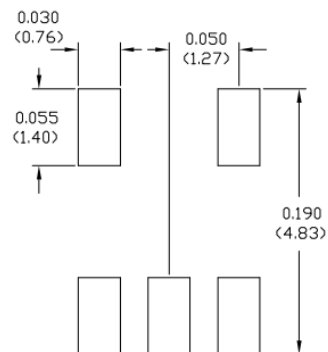


Outline Drawing

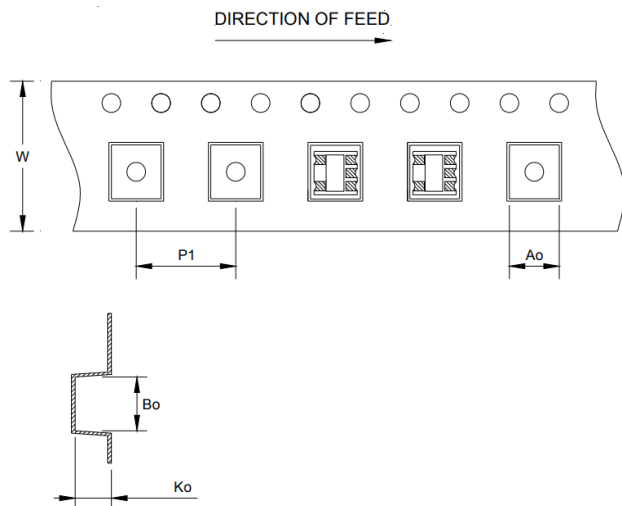


Dimensions in inches (mm). ±0.015 (0.38).
Tolerance: ±0.015 (0.38) unless otherwise noted.

Recommended Footprint



Tape & Reel Information



Tape & Reel Information

Item	Units	Dimension
Qty. per reel	mm	2000
A _o	mm	4.55 ±0.1
B _o	mm	4.75 ±0.1
K _o	mm	3.10 ±0.1
W	mm	12.00 ±0.3
P1	mm	8.00 ±0.1

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