

Features

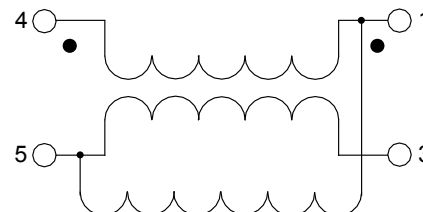
- 1:1 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- RoHS* Compliant & 260°C Reflow Compatible

Description

The MABA-009602-ES2922 is a RoHS compliant 1:1 RF transmission line transformer in a surface mount package (SM-22).

Typical applications include single to balanced mode conversion.

Schematic



Pin Configuration

Pin #	Function	Pin #	Function
1	Output Thru	4	Input
2	No Connection	5	Ground
3	Output Coupled		

Electrical Specifications: Freq. = 50 - 1200 MHz, T_A = 25°C, Z₀ = 50 Ω, P_{IN} = 0 dBm

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	50 - 600	dB	—	0.5	1.0
	600 - 1200			1.0	2.0
Amplitude Balance	50 - 600	dB	—	0.1	0.3
	600 - 1200			0.5	1.0
Phase Balance	50 - 600	°	—	1.0	3.0
	600 - 1200			4.0	13.0

Ordering Information

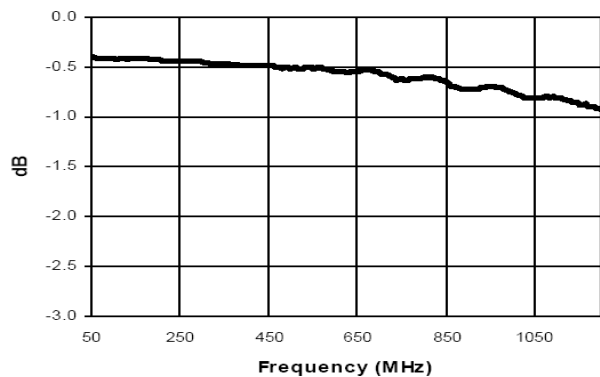
Parameter	Package
MABA-009602-ES2922	2000 piece reel

Absolute Maximum Ratings

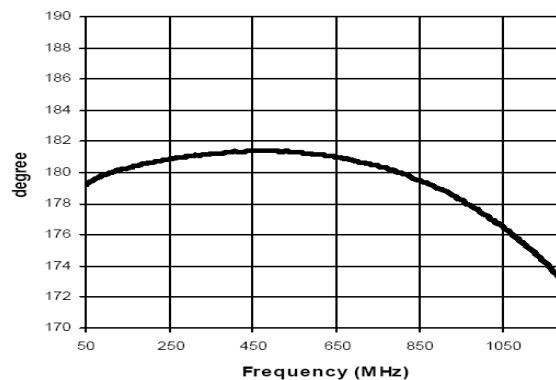
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	50 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Typical Performance Curves

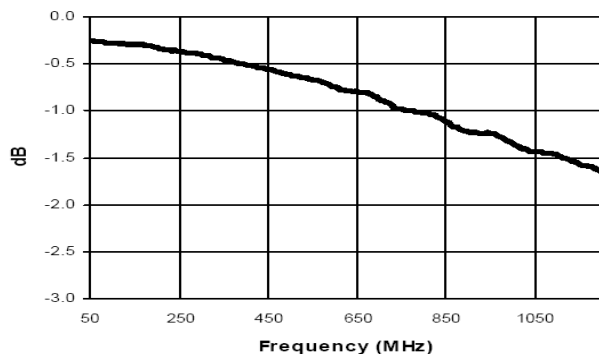
Insertion Loss Pin 4-1



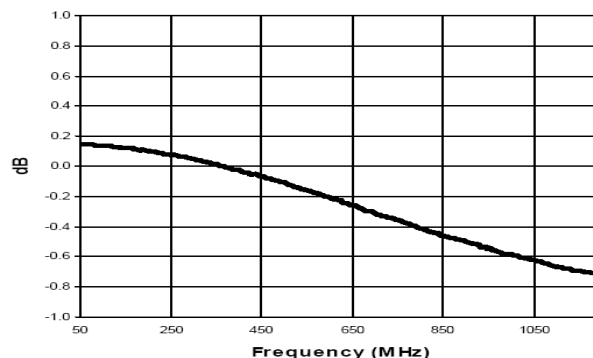
Phase Imbalance



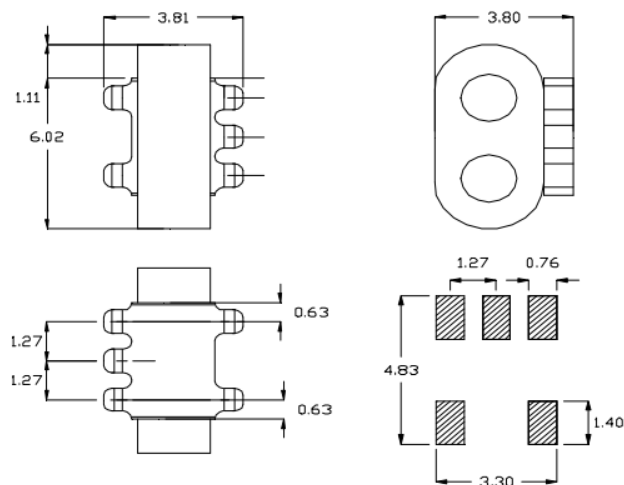
Insertion Loss Pin 4-3



Amplitude Imbalance

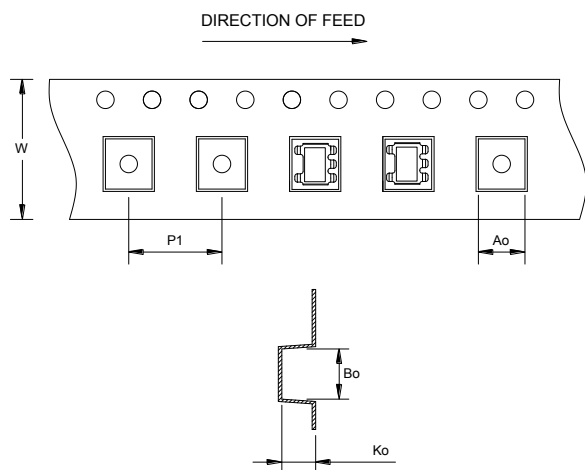


Case Style SM-22



Dimensions are inches (millimeters) ± 0.015 (0.38) unless otherwise specified.
 Drawing not to scale.

Tape & Reel Information



Dimensions

Item	Dimension (mm)
A _o	4.10 +/-0.1
B _o	6.50 +/-0.1
K _o	4.00 +/-0.1
W	16.00 +/-0.3
P1	8.00 +/-0.1

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