

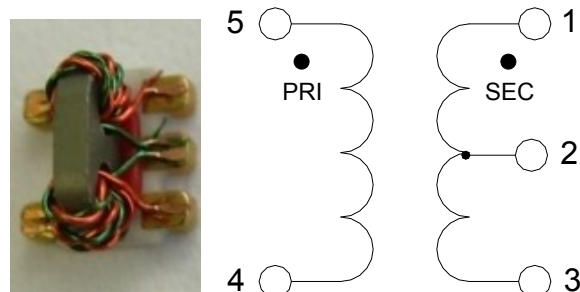
Features

- Surface Mount Package
- 1:8 Impedance
- Wide Frequency Range
- RoHS Compliant, Lead Free
- Available on Tape and Reel

Description

The MABA-010143-FLUX18 is a RoHS compliant 1:8 RF flux coupled transformer in a surface mount package. The windings are welded to the package substrate for improved reliability and to eliminate lead content. Ideally suited for high volume cellular and wireless application.

Schematic



Pin Configuration

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

Electrical Specifications: Freq. = 2 - 500 MHz, T_A = 25°C, Z₀ = 50 Ω, P_{IN} = 0 dBm

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss	—	dB	—	1.0	2.0
Amplitude Unbalance	—	dB	—	0.1	0.4
Phase Unbalance	—	°	—	0.2	0.8

Ordering Information

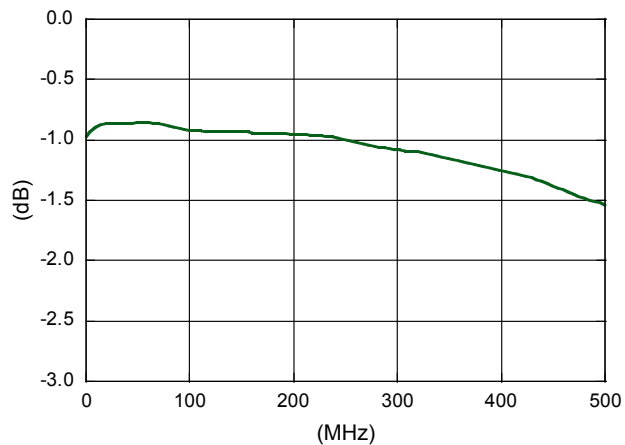
Parameter	Package
MABA-010143-FLUX18	2000 piece reel

Absolute Maximum Ratings

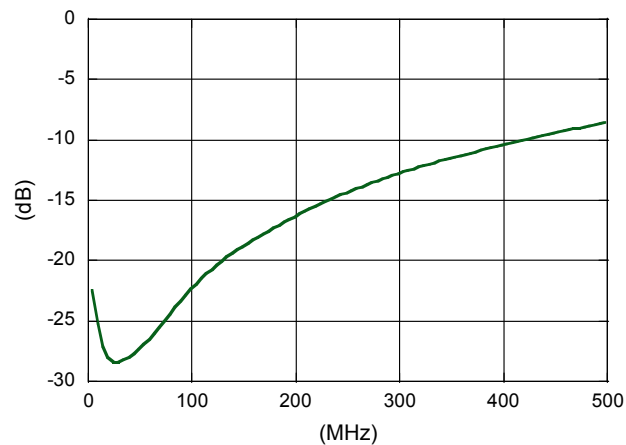
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Typical Performance: $T_A = 25^\circ\text{C}$, $Z_0 = 50 \Omega$, $P_{IN} = 0 \text{ dBm}$

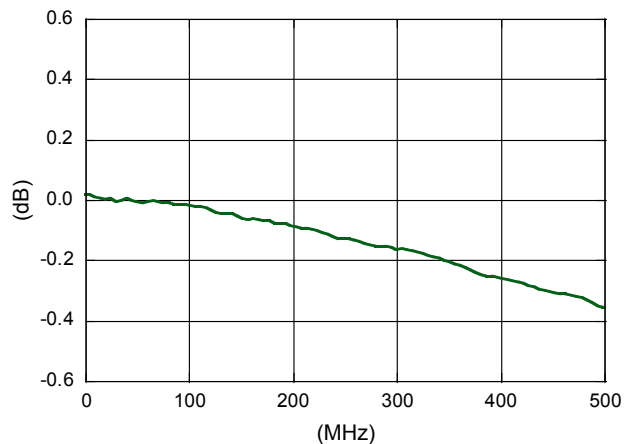
Insertion Loss



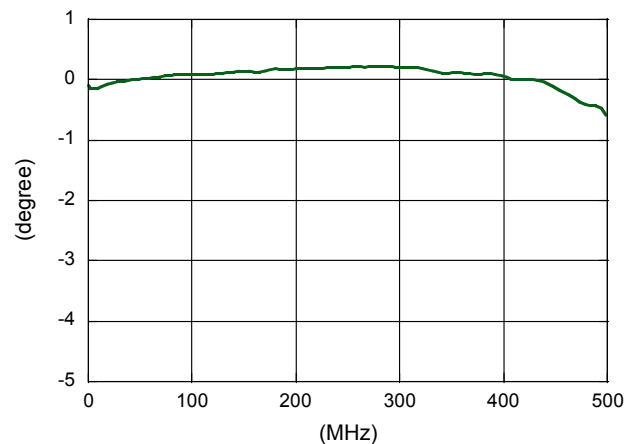
Input Return Loss



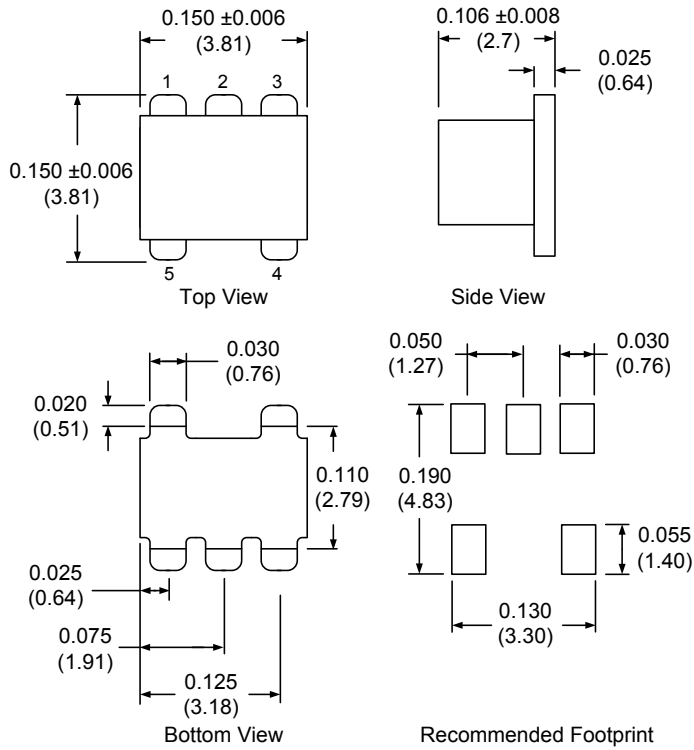
Amplitude Unbalance



Phase Unbalance

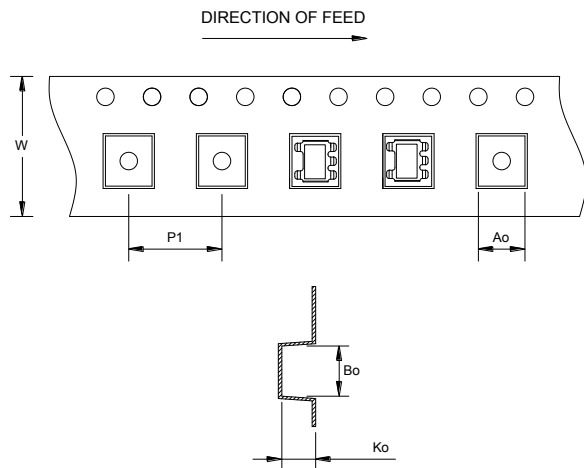


Case Style SM-22



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

Tape & Reel Information



Dimensions

Item	Dimension (mm)
A_o	4.00 +/-0.1
B_o	4.30 +/-0.1
K_o	2.90 +/-0.1
W	12.00 +/-0.3
$P1$	8.00 +/-0.1

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