MABA-009274-TC11T2

E-Series RF 1:1 Transformer 0.1 - 200 MHz

Features

- 1:1 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS compliant and Pb Free

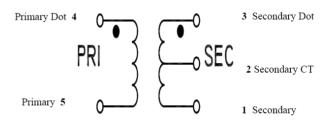
Description

MABA-009274-TC11T2 is a RoHS Compliant 1:1 RF flux coupled transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion.

The MABA-009274-TC11T2 is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.



Schematic



Ordering Information

Part Number	Package
MABA-009274-TC11T2	2000 piece reel

Pin Configuration

Pin No.	Function	
1	Secondary	
2	Secondary CT	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

Electrical Specifications: Freq. = 0.1 - 200 MHz, $T_A = 25^{\circ}C$, $Z_0 = 50 \Omega$

Parameter	Units	Min.	Тур.	Max.
Insertion Loss	dB	—	—	1.2
Amplitude Imbalance	dB	_	_	0.6
Phase Imbalance	Degrees			5
Input Return Loss	dB	33	20	9

1

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200

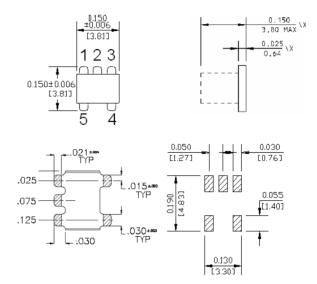
Absolute Maximum Ratings

Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	240 mA ²	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-55°C to +125°C	

1. Exceeding any one or combination of these limits may cause permanent damage to this device.

2. MACOM does not recommend sustained operation near these survivability limits.

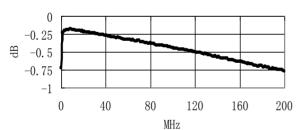
SM - 22 Package



Dimensions are inches (millimeters) ±0.015 (0.38) unless * otherwise specified.

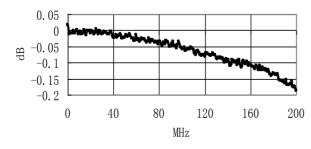
Typical Performance Curves at +25°C

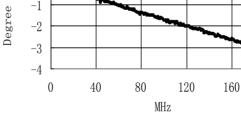
Insertion Loss



Amplitude Balance

2

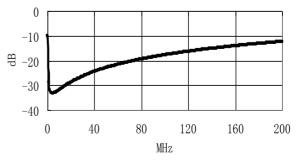




Input Return Loss

Phase Balance 0

-1



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