MABACT0012



1:1 Flux Coupled Transformer

3 - 200 MHz Rev. V4

Features

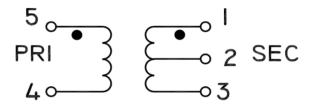
- Surface Mount
- 1:1 Impedance
- CT on Secondary
- Available on tape & reel
- RoHS* Compliant
- Pb free

Description

MABACT0012 is a 1:1 RF flux coupled transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



Functional Schematic



Ordering Information

Part Number	Package
MABACT0012	2000 piece reel

Pin Configuration

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

^{*} Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

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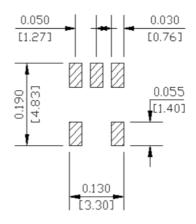
Electrical Specifications: Freq. = 3 - 200 MHz, T_A = +25°C, Z_0 = 75 Ω

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss	3 - 200 MHz	dB	_	0.8	1.5
Amplitude Unbalance	3 - 50 MHz 3 - 200 MHz	dB	_	_	0.1 0.5
Phase Unbalance	3 - 50 MHz 50 - 200 MHz	٥	_	_	1 5
Input Return Loss	3 - 200 MHz 5 - 120 MHz	dB	_	_	10 15

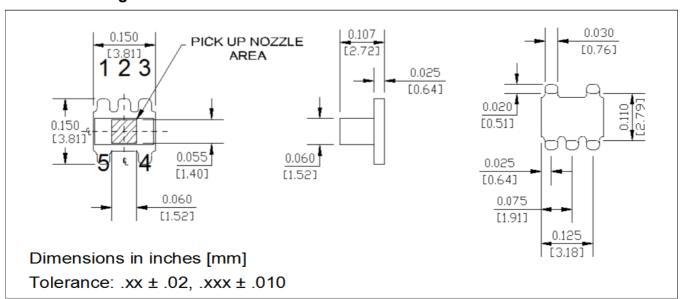
Absolute Maximum Ratings

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

PCB Footprint



Outline Drawing





1:1 Flux Coupled Transformer

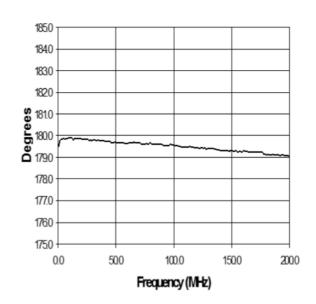
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Typical Performance Curves: $T_A = +25^{\circ}C$, $Z_0 = 75 \Omega$

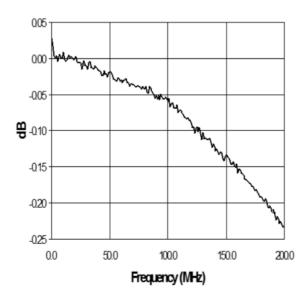
Insertion Loss Port

0.0 -01 -02 -0.3 **₽**-04 -0.5 -06 -0.7 -08 -09 100.0 2000 50.0 150.0 0.0 Frequency (MHz)

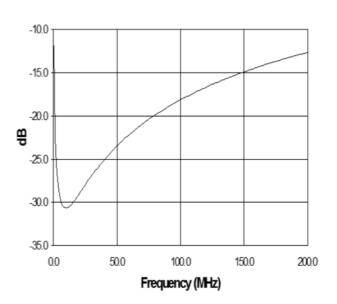
Phase Balance



Amplitude Unbalance



Input Return Loss



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