MABA-008757-CT1160



1:1 Transmission Line Transformer 4.5 to 3000 MHz

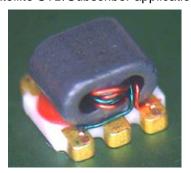
M/A-COM Products Part Status: ETRR, Rev. V1

Features

- Surface mount
- Wide frequency range
- 1:1 Impedance
- Lead free
- RoHS Compliant and is 260°C reflow compatible
- Available on tape and reel, reel quantity 2000

Description

The MABA-008757-CT1160 is a 1:1 Transmission Line Transformer. The windings of the MABA-008757-CT1160 are welded to the package substrate for improved reliability and to eliminate lead content. This Transformer is ideally suited for CATV and Satellite STB/Subscriber applications.



Pin Configuration

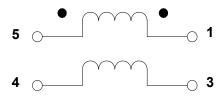
Function	Pin Number
Secondary Dot	1
Not Connected	2
Secondary	3
Primary	4
Primary Dot	5

Ordering Information

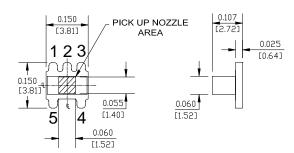
Commitment to produce in volume is not guaranteed.

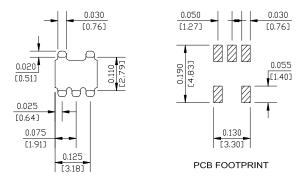
Part Number	Package
MABA-008757-CT1160	2000 piece reel
MABA-008757-CT11TB	Customer Test Board

Schematic



Case Style SM-22B





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

India Tel: +91.80.4155721

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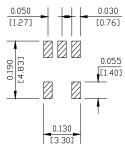
Electrical Specifications: : $T_A = 25$ °C, $Z_0 = 50\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	4.5 – 3000 MHz				
Insertion Loss 1 (Pin 4 to Pin 3)	4.5 – 1000 MHz 1000 – 2000 MHz 2000 – 2500 MHz 2500 – 3000 MHz	dB dB dB dB	_	0.07 0.63 1.93 4.20	1.0 2.0 5.0 6.5
Insertion Loss 2 (Pin 4 to Pin 1)	4.5 – 1000 MHz 1000 – 2000 MHz 2000 – 2500 MHz 2500 – 3000 MHz	dB dB dB dB	_	0.29 0.08 2.00 5.30	1.0 2.0 6.0 8.4
Amplitude UnBalance (Nominal 0dB)	4.5 – 20 MHz 20 – 1000 MHz	dB dB	_	±1.0 ±0.3	±1.2 ±1.0
Phase UnBalance (Nominal 180º)	4.5 – 1000 MHz	0	_	±0.03	±20
Input return Loss (Pin 4)	4.5 – 1000 MHz	dB	16	26.30	_

Absolute Maximum Ratings 1,2

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

Suggested Footprint



PCB FOOTPRINT

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M/A-COM Products

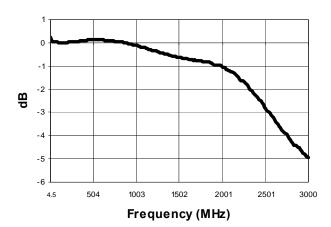
Part Status: ETRR, Rev. V1

1:1 Transmission Line Transformer

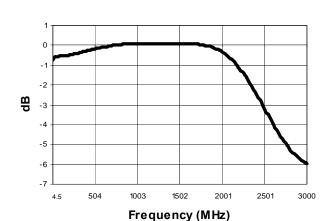
4.5 to 3000 MHz

Typical Performance Curves @ $T_A = 25$ °C, $Z_0 = 50\Omega$

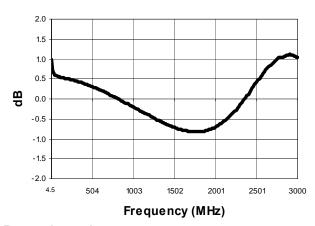
Insertion Loss 1 (Pin4 - Pin3)



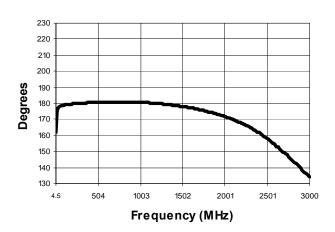
Insertion Loss 2 (Pin4 - Pin1)



Amplitude Balance



Phase Balance



Return Loss: Input

