

## 1:1 RF Transformer 5-1200MHz

Rev. V3

### Features

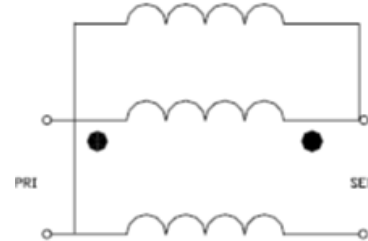
- Key Surface Mount
- 1:1 RF Transformer
- 260°C Reflow Compatible
- RoHS Compliant and Pb Free
- RoHS version of ETC1-1T-75
- Available on Tape and Reel

### Description

M/A-COM's MABA-007748-CT1160 is a 1:1 RF Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.



### Functional Schematic



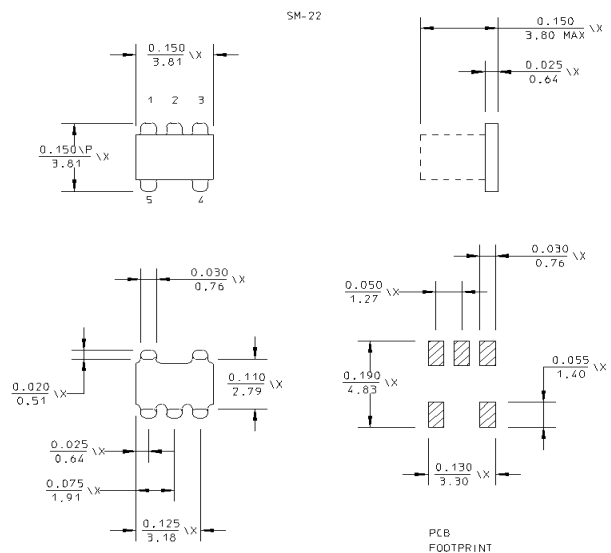
### Pin Configuration

Pin No.	Function
1	Secondary (Dot)
2	Not connected
3	Secondary
4	Primary
5	Primary (Dot)

### Ordering Information

Part Number	Package
MABA-007748-CT1160	2000 piece reel
MABA-007748-CT11TB	Sample Board

### Case Style: SM-22



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

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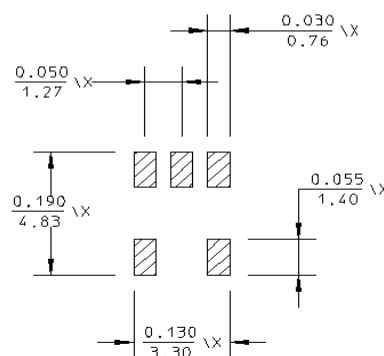
Electrical Specifications: Freq. = 5-1200MHz,  $T_A = +25^\circ\text{C}$ ,  $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss	5 - 40 MHz	dB	-	0.27	0.5
	40 - 600 MHz	dB	-	0.32	1.0
	600 - 1000 MHz	dB	-	0.57	2.0
	1000 - 1200 MHz	dB	-	1.62	3.0
Amplitude Balance	5 - 1200 MHz	dB	-	0.36	1.0
Phase Balance	5 - 1000 MHz	°	-	0.58	10
	1000 - 1200 MHz	°	-	9.15	20
Input Return Loss	5 - 40 MHz	dB	17	27	-
	40 - 200 MHz	dB	22	29	-
	200 - 400 MHz	dB	15	22	-
	400 - 600 MHz	dB	10	17	-
	600 - 1200 MHz	dB	6	11	-

### Absolute Maximum Ratings

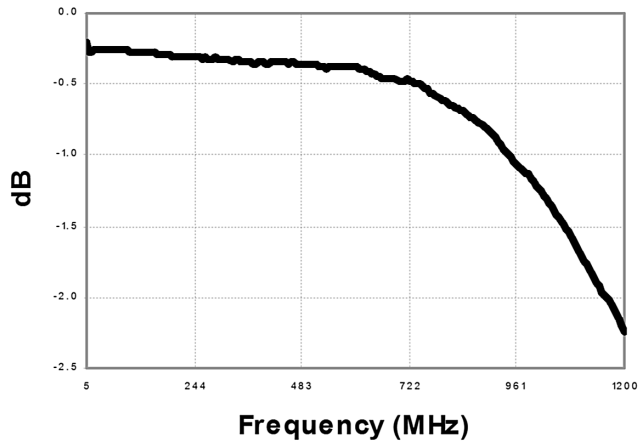
Parameter	Absolute Maximum
RF Power	250 mW
DC current	30mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

### Recommended PCB Configuration

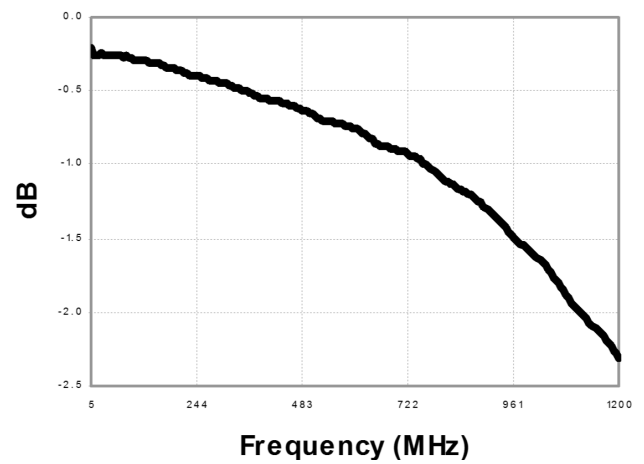


Typical Performance Curves: TA = 25°C, Z0 = 75Ω

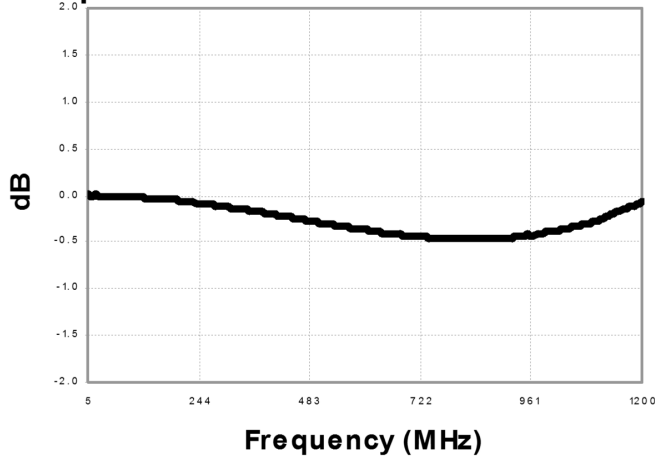
Insertion Loss 1: Pin5 - Pin3



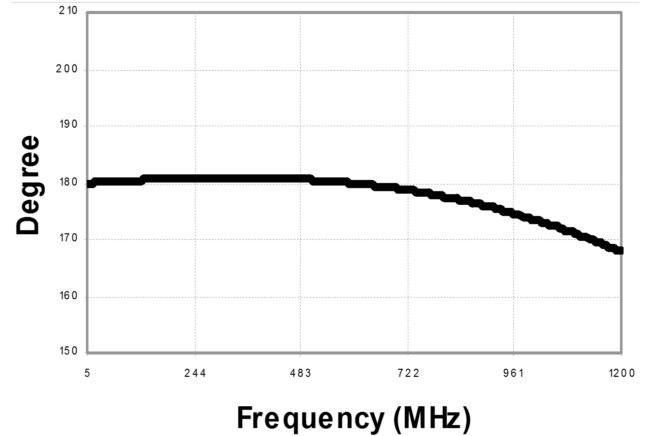
Insertion Loss 2: Pin5 - Pin1



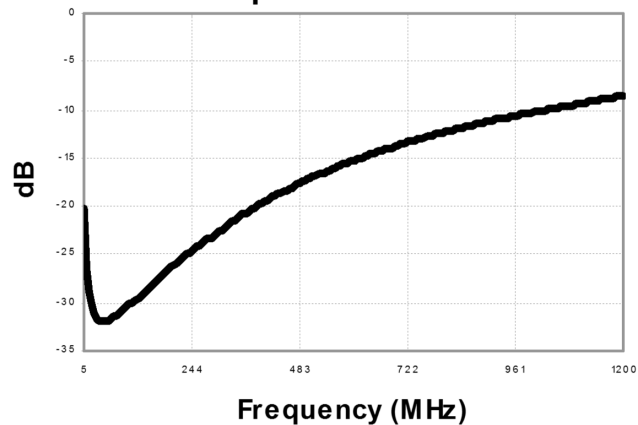
Amplitude Balance



Phase Balance



Return Loss: Input



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