## Surface Mount **RF Transformer** 0.6 to 160 MHz

50Ω

### Features

- plastic base with solder plated leads
- excellent amplitude unbalance, 0.1dB typ. and phase unbalance, 0.5 deg. typ.

# TC16-161T+



Generic photo used for illustration purposes only

CASE STYLE: AT224-1A

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

**Applications** 

impedance matching

• balanced amplifier

### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary/Primary)			16		Ohm
Frequency Range		0.6		160	MHz
	0.6-160		3		
Insertion Loss*	1.5-120		2		dB
	3-80		1		

\*Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

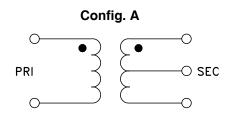
#### **Maximum Ratings**

Parameter	Ratings		
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25W		
DC Current	30mA		

Permanent damage may occur if any of these limits are exceeded.

#### **Pin Connections**

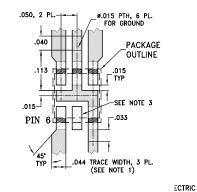
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY CT	2
SECONDARY	3
NOT USED	5



REV. C M151107 TC16-161T+ IG/TD/CP/AM 210412

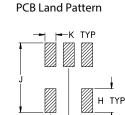
# TC16-161T+

#### Demo Board MCL P/N: TB-145 Suggested PCB Layout (PL-244)



THICKNESS 020" ± .0015"; COPPER: 1/2 OZ. ON EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. 3. THIS PAD IS NOT REQUIRED FOR AT224 CASE STYLE.

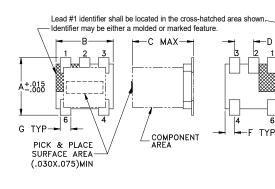
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER) DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

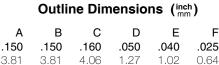


Suggested Layout, Tolerance to be within±.002

NOTES:

D TYP





**Outline Drawing** 

-D TYP

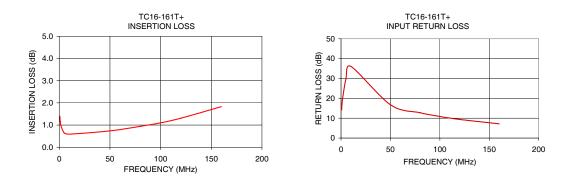
ø E TYF

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6

wt	к	J	н	G
grams	.030	.190	.065	.028
0.15	0.76	4.83	1.65	0.71

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.60	1.40	14.15	
1.00	1.16	17.14	
1.50	0.99	19.51	
5.00	0.64	29.93	
10.00	0.59	36.06	
50.00	0.74	16.77	
80.00	0.94	12.74	
100.00	1.10	10.87	
120.00	1.31	9.38	
160.00	1.83	7.18	



#### **Additional Notes**

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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