50Ω 0.6 to 160 MHz

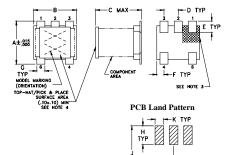
Maximum Ratings

maximum raminge			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25 W		
DC current	30mA		
Permanent damage may occur if any of these limits are exceeded.			

Pin Connections

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

Outline Drawing AT1521



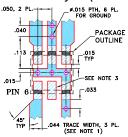
-D TYP Suggested Layout Tolerance to be within ±.002

- 1. Caste material: Flash:
 1. Temination Fix: Tip plate over Nickel plate.
 2. Temination Fix: Tip plate over Nickel plate.
 3. Lead#1 identifier shall be located in the cross-hatched area shown, on bottom view. dentifier may be either a molded or marked feature.
 1. Top-Hat total thickness: .013 inches max.

Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	Н	G
***			-		_
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

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



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015"; COPPER: 1/2 0Z. ON EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE. 3. THIS PAD IS NOT REQUIRED FOR ATZ24 CASE STYLE. DENOTES POB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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

Applications

- · impedance matching
- balanced amplifier

TC16-161TX+





CASE STYLE: AT1521 PRICE: \$2.59 ea. QTY (20) \$1.59 ea. QTY (100)

+RoHS Compliant

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

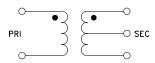


Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
16	0.6-160	0.6-160	1.5-120	3-80

^{*} Insertion Loss is referenced to mid-band loss, 0.6 dB typ

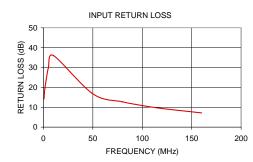
Config. A



Typical Performance Data

	EQUENCY (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	
1	00.00	1.10	10.87	
1	20.00	1.31	9.38	
1	160.00	1.83	7.18	





- 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 Claudia positional and the state of the state
- Electrical specifications and performance data contained in this specification document are hardened to be excluded and of the first part of this specification. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 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