0.15 to 350 MHz 50Q

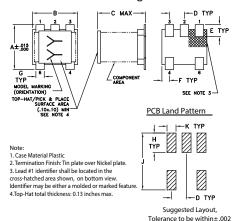
Maximum Ratings

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

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

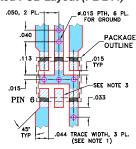
Outline Drawing AT1521



Outline Dimensions (inch)

F	E	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 DIELEC THICKNESS .020" ± .0015"; COPPER: 1/2 OZ. ON EACH SII FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODI 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 (SOLDE MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER

Features

- good return loss
- usable over 0.05-400 MHz
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- plastic base with leads

Applications

- balanced to unbalanced transformation
- push-pull amplifiers

TC1-6X+





CASE STYLE: AT1521

+RoHS Compliant

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

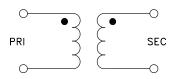


Electrical Specifications

RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1	0.15-350	0.15-350	0.25-250	0.3-125

* Insertion Loss is referenced to mid-band loss, 0.2 dB tvp.

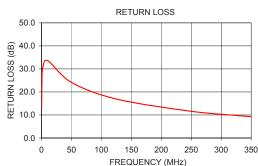
Config. C



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.15	0.73	12.89	
0.25	0.61	16.56	
0.30	0.57	17.77	
0.50	0.44	23.21	
2.00	0.31	30.49	
10.00	0.26	33.62	
50.00	0.35	24.13	
125.00	0.61	16.90	
250.00	1.31	11.59	
350.00	2.16	9.26	





- 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