600 to 1100 MHz 50Ω

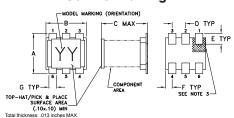
Maximum Ratings

Operating Temperature	-20°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	2,5

Outline Drawing



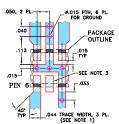


Suggested Layout, Tolerance to be within .002

Outline Dimensions (inch)

Α	В	С	D	Е	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G	Н	J	K		wt
G .028	H .065	J .190	.030		wt grams

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



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS ROASSOB WITH DIELECTRIC THICKNESS. 0.20" ± .0015"; COPPER: 1/2 07. 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 STU. 2. SECONTES FOR COPPER LAYOUT WITH SMOBE (SOLDER MASK OVER BABE COPPER)

MASK OVER BABE COPPER.

Features

- wideband, 600 to 1100 MHz
- balanced transmission line
- excellent amplitude unbalance. 0.6 dB typ.
- excellent phase unbalanced, 8 deg typ.
- plastic base with solder plated leads
- aqueous washable

Applications

- cellular
- baluns
- impedance matching

TCML1-11X+





CASE STYLE: DB1627

+RoHS Compliant

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



Electrical Specifications

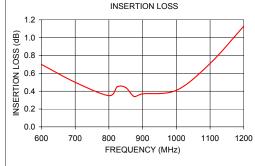
RATIO	FREQUENCY (MHz)	3 dB	INSERTION LOSS*	1 dB
		MHz	MHz	MHz
1	600-1100	_	600-1100	700-1000

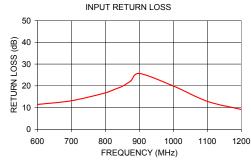
^{*} Insertion Loss is referenced to mid-band loss, 0.4 dB typ



Typical Performance Data

	EQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
	600.00	0.70	11.42
	700.00	0.50	13.14
	800.00	0.35	16.75
	825.00	0.45	18.23
	850.00	0.44	19.80
	875.00	0.34	22.25
	900.00	0.37	25.70
10	00.000	0.41	19.94
1	100.00	0.71	12.88
1:	200.00	1.13	9.11





- 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