RF Transformer

 50Ω 600 to 1100 MHz

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

TCML1-11+



Generic photo used for illustration purposes only

CASE STYLE: DB714

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



Electrical Specifications

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		Ohm
Frequency Range		600		1100	MHz
Insertion Loss*	600 - 1100		2		dB
	700 - 1000		1		

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

Maximum Ratings

Parameter	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.

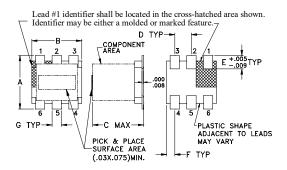
Pin Connections

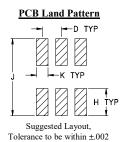
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2,5

Config. G



Outline Drawing

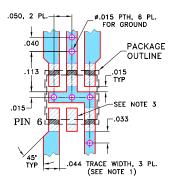




Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.160
0.64	1.02	1.27	4.06	3.81	4.06
wt		K	J	н	G
WL		r.	J	П	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 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 STYLE.

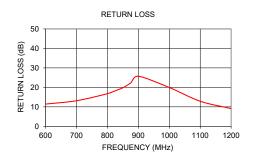
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Typical Performance Data

FREQUENCY (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
1000.00	0.41	19.94
1100.00	0.71	12.88
1200.00	1.13	9.11





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 a www.minicircuits.com/MCLStore/terms.jsp



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