Surface Mount **RF Transformer** 600 to 1100 MHz

50Ω

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





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

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

Electrical Specifications

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

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

Maximum Ratings

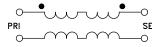
Parameter	Ratings
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

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

Pin Connections

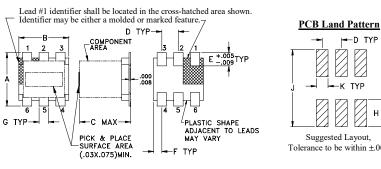
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2,5

Config. G



TCML1-11+

Outline Drawing

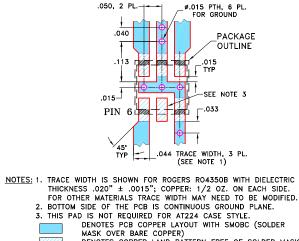


🗕 D TYP -K TYP H TYP Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

А	В	С	D	E	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G	н	J	к		wt
G .028	H .065	J .190	K .030		wt grams

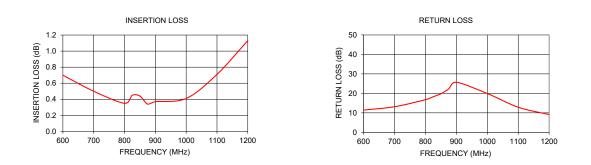
Demo Board MCL P/N: TB-145+ Suggested PCB Layout (PL-244)



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 www.minicircuits.com/MCLStore/terms.jsp

