RF Transformer

50Ω

600 to 1100 MHz



TCML1-11+

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		

Maximum Ratings

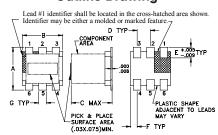
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

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

Pin Connections

6
4
1
3
2,5

Outline Drawing



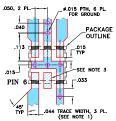
PCB Land Pattern P TYP



Outline Dimensions (inch)

F	E	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
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 ROASSOB WITH DIELECTRIC THICKNESS. 0.20" ± 0015", COPPER: 1/2 OZ. 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 FOR COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND FATTERN FREE OF SOLDER MASK

Applications

• aqueous washable

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

- cellular
- baluns
- impedance matching

Transformer Electrical Specifications

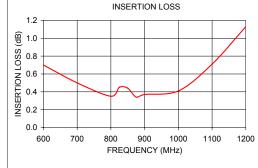
Ω RATIO	FREQUENCY (MHz)	3 dB MHz	INSERTION LOSS* 2 dB MHz	1 dB MHz
		131112	131112	111112
1	600-1100	_	600-1100	700-1000

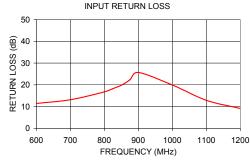
^{*} Insertion Loss is referenced to mid-band loss, 0.4 dB typ



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





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