

Ceramic RF Transformer

50Ω 700 to 1400 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

Input RF Power** (W) 5W

**From 85°C derate linearly to 2.5 W at 100°C

Pin Connections

PRIMARY DOT 4

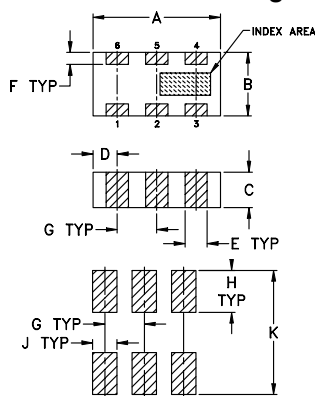
PRIMARY (GND) 2,5

SECONDARY DOT 1

SECONDARY 6

NOT USED 3

Outline Drawing



SUGGESTED LAYOUT FOR PCB PATTERN
PATTERN TO BE WITHIN ±.002

TOLERANCE UNLESS OTHERWISE STATED

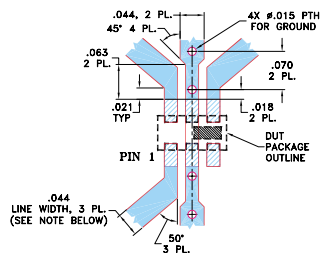
2 PLACE DECIMALS: ±.01

3 PLACE DECIMALS: ±.005

Outline Dimensions (inch)

A	B	C	D	E	F
.126	.063	.037	.024	.022	.012
3.20	1.60	0.94	0.61	0.56	0.30
G	H	J	K	wt	
.039	.042	.024	.123	grams	
0.99	1.07	0.61	3.12	.020	

Demo Board MCL P/N: TB-287
Suggested PCB Layout (PL-163)



- NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 700 to 1400 MHz
- miniature size, 0.12"x.06"x.037"
- LTCC construction
- low cost

Applications

- TDMA, CDMA
- GSM
- PDC
- WAN
- TACS
- AMPS, NAMPS



CASE STYLE: FV1206-1

PRICE: \$ 1.99 ea. QTY (10-49)

\$ 1.69 ea. QTY (100)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

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

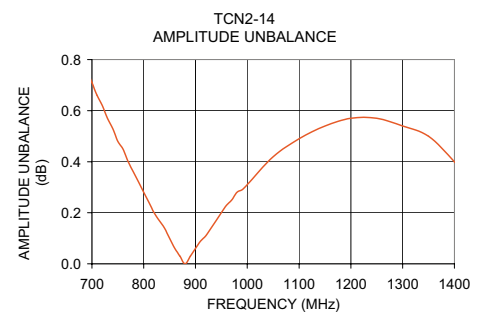
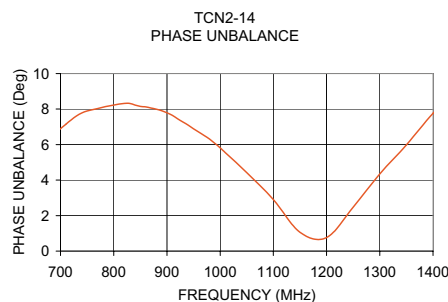
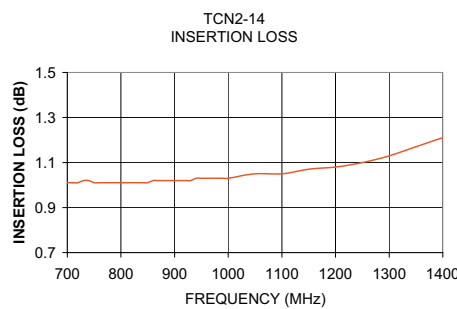
Electrical Specifications (T_{AMB} = 25°C)

Ω RATIO	FREQUENCY (MHz)	INSERTION* LOSS (dB)	PHASE UNBALANCE (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Typ.
2	700-1400	0.8	8	0.7
	800-1000	0.5	8	0.3

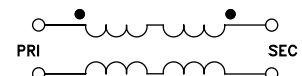
* Insertion Loss is referenced to mid-band loss, 0.9 dB

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
700.00	1.01	10.56	0.71	6.90
750.00	1.01	10.63	0.48	7.89
800.00	1.01	10.75	0.28	8.23
850.00	1.01	10.95	0.10	8.15
900.00	1.02	11.08	0.06	7.79
950.00	1.03	11.29	0.20	6.89
1000.00	1.03	11.38	0.31	5.81
1200.00	1.08	11.27	0.57	0.76
1300.00	1.13	10.80	0.54	4.35
1400.00	1.21	10.23	0.40	7.76



configuration G



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