

Ceramic Balun RF Transformer

50Ω 1600 to 2600 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

Input RF Power** 5W

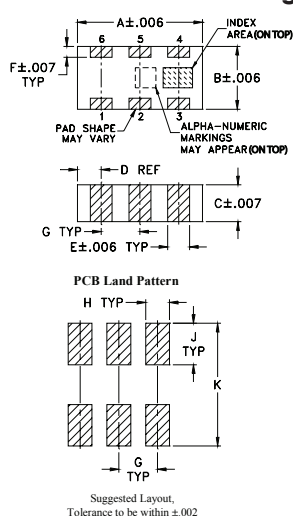
** Derate linearly to 2.5W at 100°C

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

Pin Connections

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

Outline Drawing

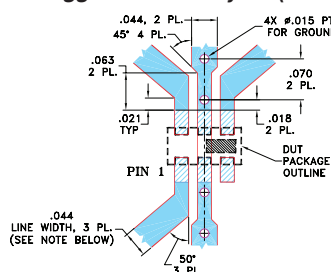


Outline Dimensions (mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28

G	H	J	K	wt
.039	.024	.042	.123	grams
0.99	0.61	1.07	3.12	.020

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



- NOTE:
- 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.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER). DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 1600 to 2600 MHz
- miniature size, 0.12"x.06"x.037"
- LTCC construction
- low cost
- aqueous washable

Applications

- PCS
- DECT
- ISM
- WIFI
- BLUE TOOTH
- PHS

Electrical Specifications

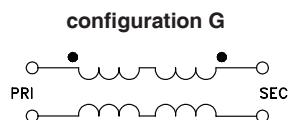
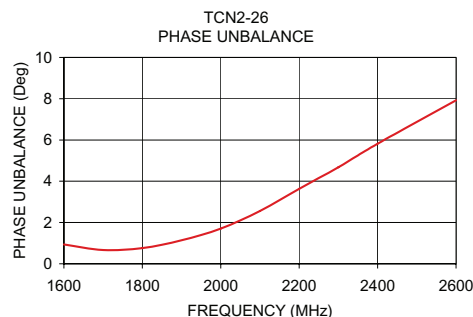
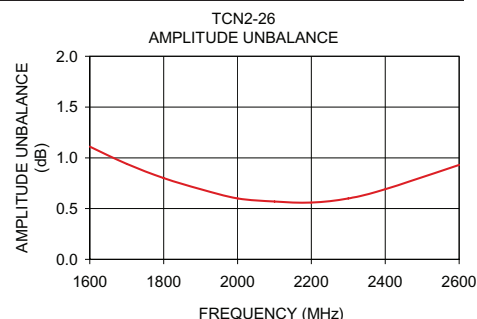
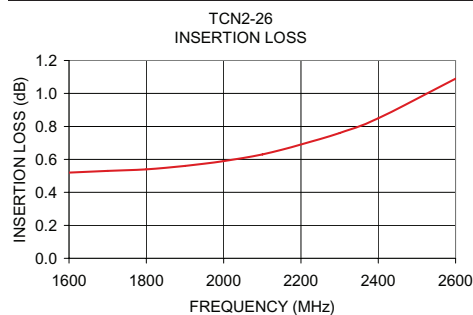
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION* LOSS (dB)	PHASE UNBALANCE † (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Typ.
2	1600-1800	0.5	2.0	0.8
	1800-2000	0.5	3.0	0.5
	2000-2600	1.0	6.0	0.6

* Insertion Loss is referenced to mid-band loss, 0.5 dB

† Relative to 180°

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1600.00	0.52	23.40	1.11	0.94
1700.00	0.53	24.36	0.94	0.67
1800.00	0.54	23.96	0.80	0.76
1900.00	0.56	22.36	0.69	1.14
2000.00	0.59	20.40	0.60	1.71
2100.00	0.63	18.44	0.57	2.56
2200.00	0.69	16.59	0.56	3.63
2300.00	0.76	14.88	0.60	4.68
2400.00	0.85	13.34	0.69	5.82
2600.00	1.09	10.72	0.93	7.92



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REV. B
M123210
TCN2-26
ED-11351/4
IG/RS/CP/AM
130307

**TCN2-26+
TCN2-26**



CASE STYLE: FV1206-1
PRICE: \$1.99 ea. QTY (20)
\$1.69 ea. QTY (100)

+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, 1000, 3000