

Ceramic Balun RF Transformer

50Ω 680 to 1050 MHz

TCN1-10+
TCN1-10



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

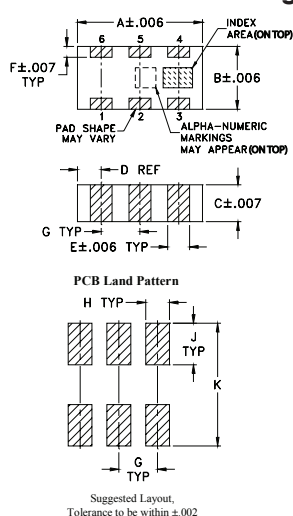
Maximum Ratings

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(GND)	2,5
SECONDARY DOT	1
SECONDARY	6
NOT USED	3

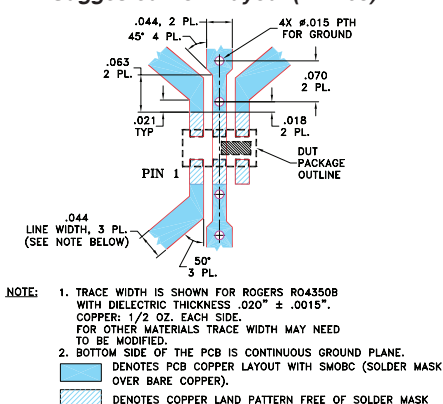
Outline Drawing



Outline Dimensions (Inch)

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)



Features

- wideband, 680 to 1050 MHz
- miniature size, 0.12"x.06"x.037"
- LTCC construction
- low cost
- aqueous washable

Applications

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

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

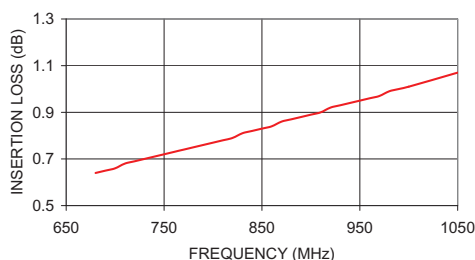
Ω RATIO	FREQUENCY (MHz)	INSERTION* LOSS (dB)	PHASE UNBALANCE † (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Typ.
1	680-1050	0.9	4.0	0.7
	800-900	0.7	1.0	0.25

* Insertion Loss is referenced to mid-band loss, 0.6 dB
† Relative to 180°

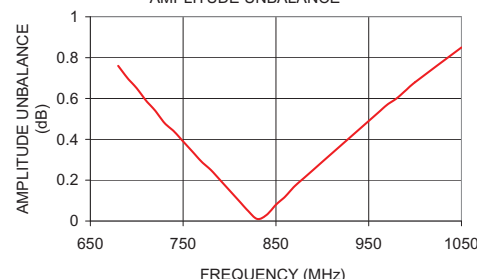
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
680.00	0.64	14.50	0.76	6.82
700.00	0.66	14.07	0.65	5.94
750.00	0.72	13.10	0.39	3.94
800.00	0.77	12.43	0.15	2.29
850.00	0.83	11.83	0.08	0.97
900.00	0.89	11.36	0.29	0.23
950.00	0.95	10.99	0.49	1.01
990.00	1.00	10.71	0.64	1.48
1000.00	1.01	10.64	0.68	1.54
1050.00	1.07	10.39	0.85	1.78

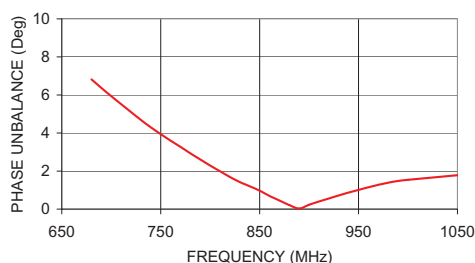
TCN1-10
INSERTION LOSS



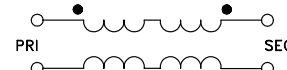
TCN1-10
AMPLITUDE UNBALANCE



TCN1-10
PHASE UNBALANCE



configuration G



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shipping online see web site

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