

Ceramic Balun RF Transformer

50Ω 600 to 1100 MHz

TCN3-11+



CASE STYLE: FV1206-1

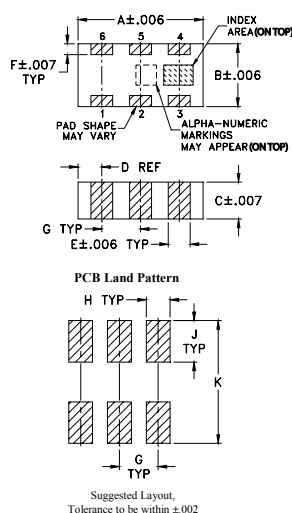
Maximum Ratings

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

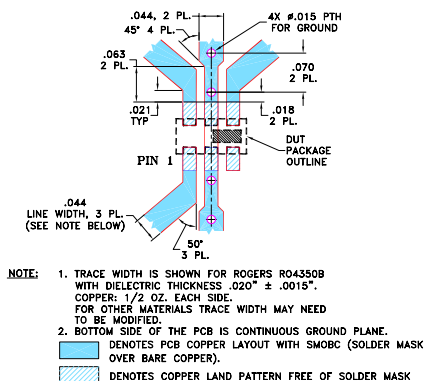
Outline Drawing



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)



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 entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

- wideband, 600 to 1100 MHz
- miniature size, 0.12"x.06"x.037"
- LTCC construction
- low cost
- aqueous washable

Applications

- WAN
- TACS
- AMPS
- NAMPS
- PDC

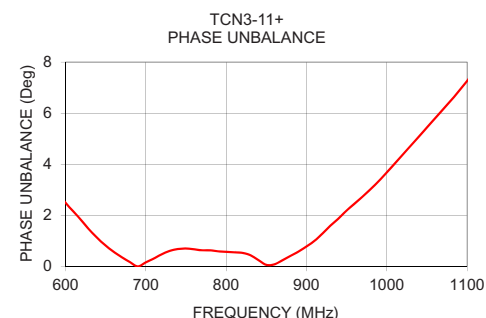
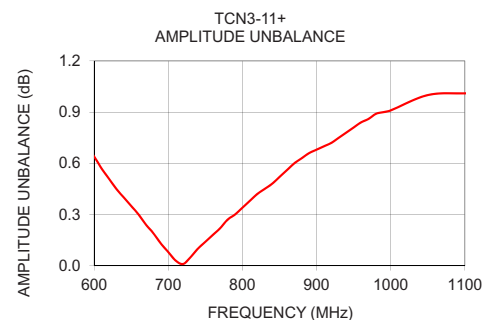
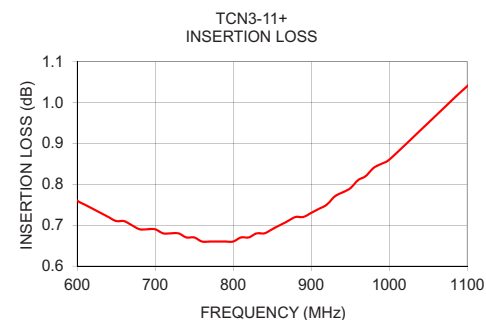
Electrical Specifications (T_{AMB}=25°C)

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION* LOSS (dB)	PHASE UNBALANCE † (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Typ.
3	600-1100	0.7	6.0	1.0
	800-960	0.5	2.0	0.8

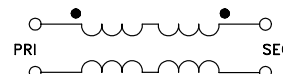
* Insertion Loss is referenced to mid-band loss, 0.7 dB
† Relative to 180°

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
600.00	0.76	12.66	0.64	2.49
650.00	0.71	14.01	0.35	0.81
700.00	0.69	15.80	0.08	0.16
750.00	0.67	17.61	0.14	0.70
800.00	0.66	19.41	0.34	0.57
850.00	0.69	20.29	0.52	0.06
900.00	0.73	19.39	0.68	0.78
950.00	0.79	17.84	0.81	2.19
1000.00	0.86	15.98	0.91	3.68
1100.00	1.04	13.16	1.01	7.26



configuration G



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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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