THE DATASHEET OF

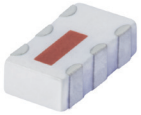
TCN2-26+

www.win-source.net 0086-755-83957316

Ceramic Balun
RF Transformer

50Ω 1600 to 2600 MHz

TCN2-26+



Generic photo used for illustration purposes only

CASE STYLE: FV1206-1

+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	2,5
SECONDARY DOT	6
SECONDARY	1
NOT USED	3

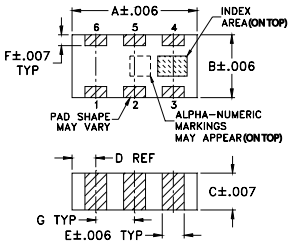
Features

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

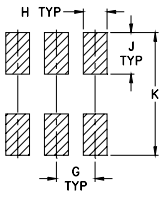
Applications

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

Outline Drawing



PCB Land Pattern



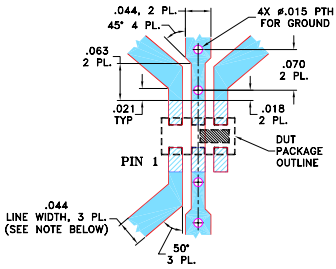
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch / 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:
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.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

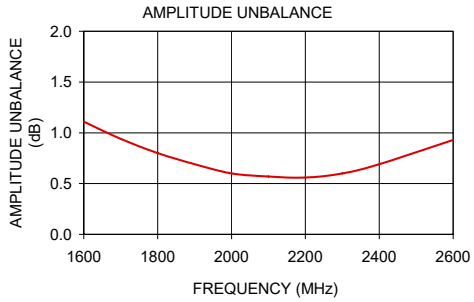
Electrical Specifications

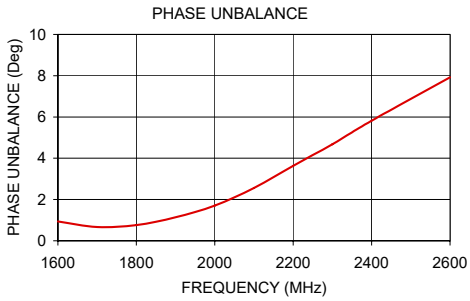
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION* LOSS (dB)	PHASE UNBALANCE † (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Typ.
	1600-1800	**0.5**	**2.0**	**0.8**
2	1800-2000	0.5	3.0	0.5
	2000-2600	1.0	6.0	0.6

* Insertion Loss is referenced to mid-band loss, 0.5 dB
† Relative to 180º

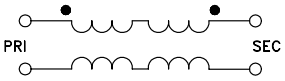
Typical Performance Data

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





configuration G



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.
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