

RF Transformer

50Ω 1600 to 2600 MHz

Maximum Ratings

<u>Operating Temperature</u>	-55°C to 100°C
------------------------------	----------------

<u>Storage Temperature</u>	-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
-------------	---

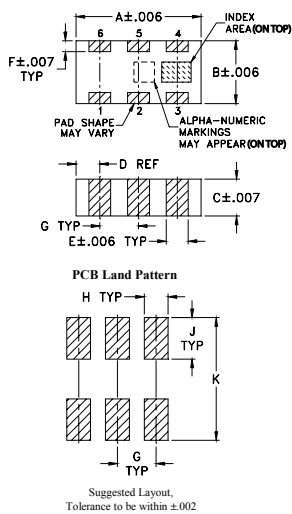
PRIMARY	2,5
---------	-----

SECONDARY DOT 6

SECONDARY 1

NOT USED	3
----------	---

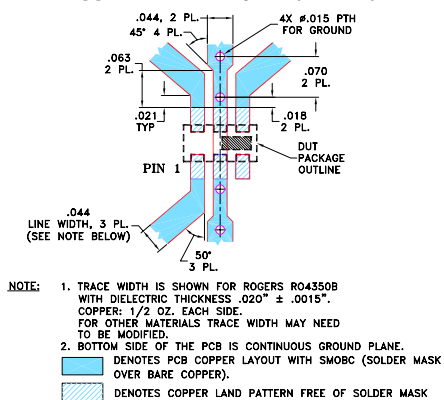
Outline Drawing



Outline Dimensions (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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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

