Ceramic Balun **RF Transformer**

50Ω 3000 to 8000 MHz 1:2 Ratio

Features

- wideband, 3000 to 8000 MHz
- miniature size, 0.079"x0.049"x0.033"
- LTCC construction
- low cost
- aqueous washable

Applications

- Point to Point
- ISM





Generic photo used for illustration purposes only CASE STYLE: GE0805C-1

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			2		
Frequency Range		3000	_	8000	MHz
Insertion Loss ¹	3000-8000	—	1.6	1.9	dB
Amplitude Unbalance	3000-8000	—	1.8	2.5	dB
Phase Unbalance ²	3000-8000	—	12	19	Degree

1. Insertion Loss is referenced to mid-band loss, 0.6 dB. Reference Demo Board TB-628+.

2. Relative to 180°

Maximum Ratings

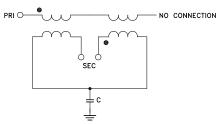
Parameter	Ratings		
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	3W		

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

Pad Connections

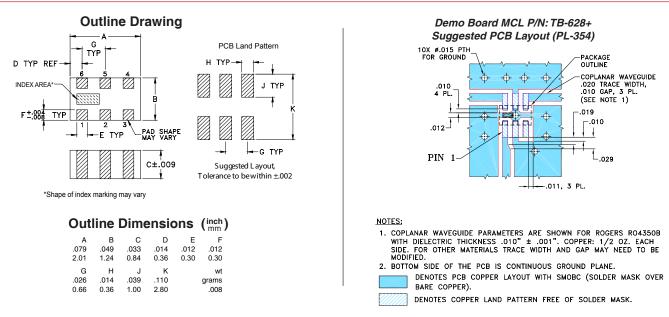
Function	Pad Number		
PRIMARY DOT (Unbalanced Port)	1		
PRIMARY (GND)	2		
SECONDARY DOT (Balanced)	4		
SECONDARY (Balanced)	6		
NO CONNECTION	3		
NOT USED (GND Extremally)	5		





REV. OR NPO-001194 NCS2-83-7+ ED 12817/34B32 RS/AM 201117

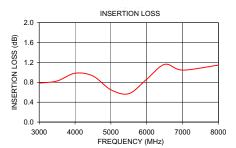
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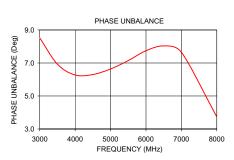


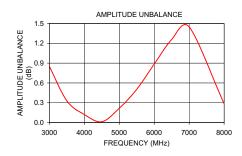
Typical Performance Data at 25°C³

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
3000.00	0.78	12.56	0.85	8.52
3500.00	0.83	11.58	0.33	6.93
4000.00	0.98	10.00	0.12	6.27
4500.00	0.93	10.64	0.01	6.30
5000.00	0.65	15.90	0.22	6.64
5500.00	0.57	24.01	0.50	7.15
6000.00	0.86	12.52	0.88	7.74
6500.00	1.16	10.54	1.26	8.03
7000.00	1.05	12.36	1.45	7.65
8000.00	1.15	17.40	0.29	3.74

3. Measured with Agilent E5071B network analyzer using impedance conversion and port extension.







Additional 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 www.minicircuits.com/MCLStore/terms.jsp

