Ceramic Balun **RF Transformer** 50Ω 250 to 760 MHz 1:3 Batio

Features

- wideband, 250 to 760 MHz
- low phase unbalance, 8 deg. and amplitude unbalance, 0.3 dB typ.
- miniature size 0805 (2.0x1.25mm)
- good matching VSWR, 1.5:1 typ.
- LTCC construction
- low cost
- aqueous washable

Applications

- VHF/UHF
- signal process
- instrumentation





Generic photo used for illustration purposes only CASE STYLE: GE0805C-9

+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, 4000				

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			3		
Frequency Range		250	—	760	MHz
Insertion Loss ¹	250 - 760	—	0.9	1.3	dB
Amplitude Unbalance	250 - 760	—	0.3	1.0	dB
Phase Unbalance ²	250 - 760	—	5	10	Degree

1. Reference Demo Board TB-626+

2. Relative to 180°

Maximum Ratings

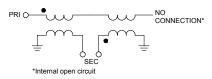
Parameter	Ratings
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power*	2W at 25°C

*Passband rating , derate linearly to 1W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

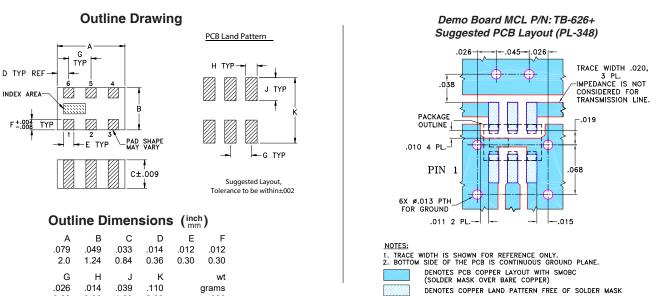
Pad Connections

Function	Pad Number	
PRIMARY DOT (Unbalanced Port)	2	
PRIMARY (GND)	1,3	
SECONDARY DOT (Balanced)	4	
SECONDARY (Balanced)	6	
NO CONNECTION	5	

Configuration J



NCS3-72+



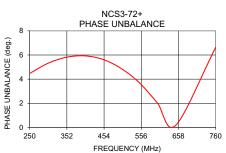
Typical Performance Data at 25°C³

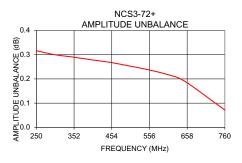
				PHASE UNBALANCE (Deg.)
FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	
250	0.75	16.28	0.32	4.47
300	0.80	13.24	0.30	5.31
350	0.87	11.80	0.29	5.81
400	0.89	11.38	0.28	5.93
450	0.89	11.58	0.27	5.64
500	0.86	12.18	0.25	4.90
550	0.83	13.14	0.24	3.73
600	0.80	14.39	0.22	2.03
650	0.78	15.79	0.19	0.17
760	0.84	16.54	0.07	6.63

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

.008







Additional Notes

0.66

0.36

1.00

2.80

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

