Ceramic Balun **RF Transformer** 50Ω 900 to 2300 MHz 1:2 Ratio

Features

- wideband, 900 to 2300 MHz
- low phase unbalance, 8 deg. and
- amplitude unbalance, 0.6 dB typ. • miniature size 0805 (2.0x1.25mm)
- LTCC construction
- low cost
- aqueous washable

Applications

- WCDMA
- PCS
- GPS
- cellular





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



Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			2		
Frequency Range		900	_	2300	MHz
Insertion Loss ¹	950 - 2150 900 - 2300	_	1.2 1.4	1.6	dB
Amplitude Unbalance	950 - 2150 900 - 2300	_	0.6 0.9	1.0	dB
Phase Unbalance ²	950 - 2150 900 - 2300		5 8	10	Degree

1. Reference Demo Board TB-626+

2. Relative to 180°

Maximum Ratings

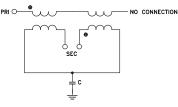
Parameter	Ratings		
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power*	2W at 25°C		

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

Pad Connections

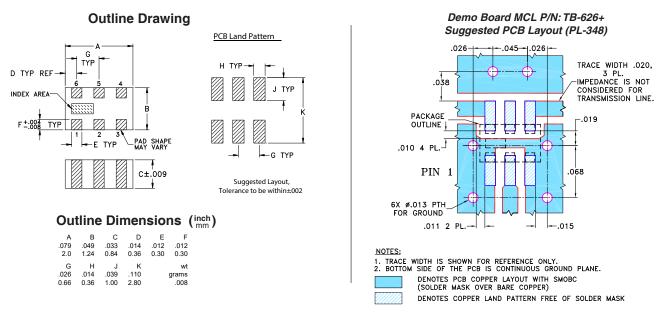
Function	Pad Number	
PRIMARY DOT (Unbalanced Port)	2	
PRIMARY (GND)	1,3	
SECONDARY DOT (Balanced)	4	
SECONDARY (Balanced)	6	
NO CONNECTION	5	

Configuration R





NCS2-232+

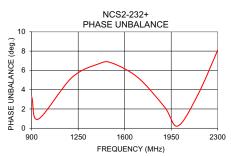


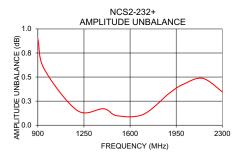
Typical Performance Data at 25°C³

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
900	0.71	18.37	0.90	3.27
950	0.71	18.27	0.58	0.95
1200	0.74	19.61	0.15	5.23
1400	0.77	24.26	0.17	6.66
1500	0.79	28.76	0.10	6.78
1700	0.85	23.85	0.11	5.25
1900	0.98	17.16	0.33	2.20
2000	1.06	15.09	0.42	0.23
2150	1.24	12.82	0.49	3.45
2300	1.47	11.21	0.35	8.09

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

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