



CERAMIC BALUN

RF Transformer

NCS2-771+

Mini-Circuits

50Ω 240 to 770 MHz 1:2 Ratio

FEATURES

- Miniature size 0805, 0.079"x0.049"x0.033"
- LTCC construction
- Low cost
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: GE0805C-9

APPLICATIONS

- VHF/UHF
- Satellite
- Instrumentation

+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.	Typ.	Max.	Units
Impedance Ratio (Secondary/Primary)			2		
Frequency Range		240		770	MHz
Insertion Loss ¹	240 - 770	—	0.2	0.8	dB
Amplitude Unbalance	240 - 770	—	0.5	1.0	dB
Phase Unbalance ²	240 - 770	—	5	11	Degree

1. Insertion Loss is referenced to mid-band loss, 0.7 dB. Reference Demo Board TB-626+

2. Relative to 180°

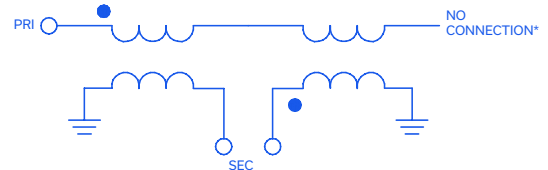
MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
RF Power ³	2W

3. Passband rating, derate linearly to 1W at 100°C ambient.

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

CONFIGURATION J



*Internal open circuit

Mini-Circuits

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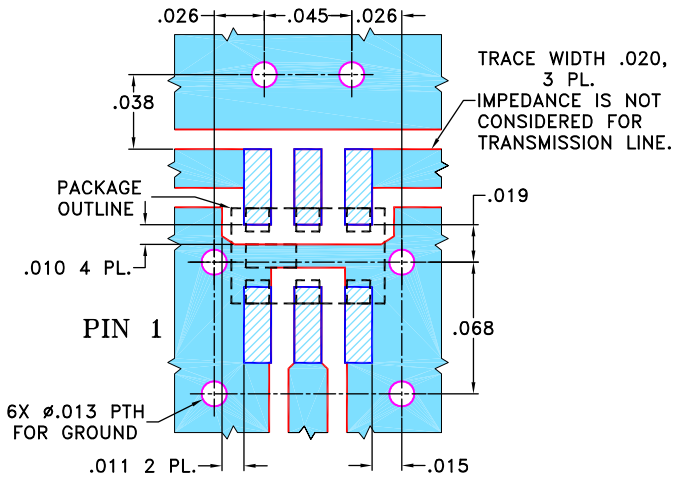


PAD CONNECTIONS

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

PRODUCT MARKING: N/A

DEMO BOARD MCL P/N: TB-626+ SUGGESTED PCB LAYOUT (PL-348)

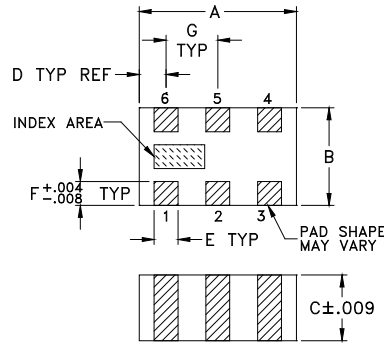


NOTES:

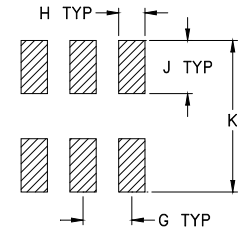
- TRACE WIDTH IS SHOWN FOR REFERENCE ONLY.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout,
Tolerance to be within \pm .002

OUTLINE DIMENSIONS (Inches/mm)

A	B	C	D	E	F
.079	.049	.033	.014	.012	.012
2.0	1.24	0.84	0.36	0.30	0.30
G	H	J	K		wt
.026	.014	.039	.110		grams
0.66	0.36	1.00	2.80		.008

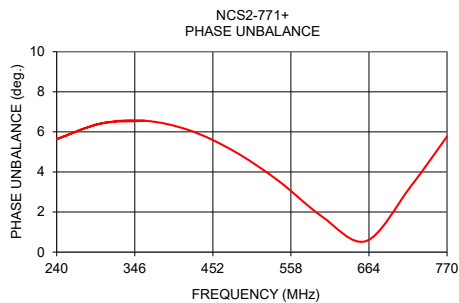
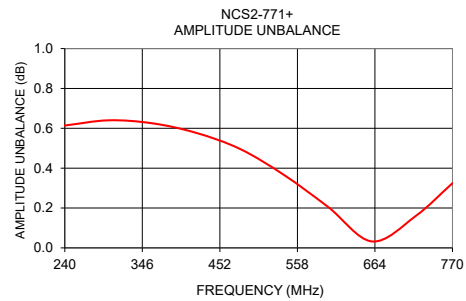
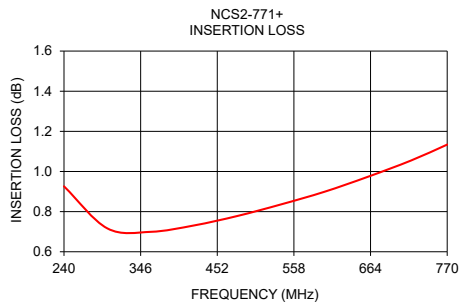
TAPE & REEL INFORMATION: F74



TYPICAL PERFORMANCE DATA³

Frequency (MHz)	Insertion Loss (dB)	Input Return Loss (dB)	Amplitude Unbalance (dB)	Phase Unbalance (deg)
240	0.93	13.53	0.61	5.64
300	0.72	20.55	0.64	6.42
360	0.70	19.91	0.62	6.55
420	0.73	17.10	0.58	6.08
480	0.78	15.26	0.50	5.05
540	0.84	14.00	0.37	3.59
600	0.90	12.94	0.21	1.78
660	0.97	12.01	0.03	0.55
720	1.05	11.16	0.16	3.25
770	1.13	10.50	0.32	5.77

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



- 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.
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