

# Surface Mount RF Transformer

50Ω 50 to 1000 MHz

## TRS1-1T-13-2A+



Generic photo used for illustration purposes only

CASE STYLE: AT577

**+RoHS Compliant**

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

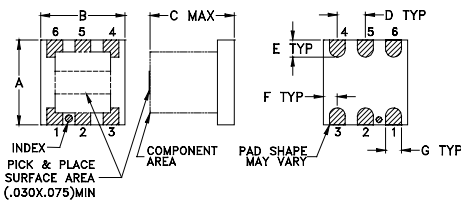
### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	16mA

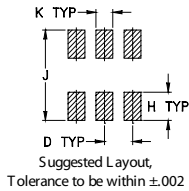
### Pin Connections

PRIMARY DOT	1
PRIMARY	3
SECONDARY DOT	6
SECONDARY	4
CT	2
NOT USED	5

### Outline Drawing



### PCB Land Pattern



### Outline Dimensions (inch/mm)

A	B	C	D	E	F
.200	.200	.200	.075	.050	.025
5.08	5.08	5.08	1.91	1.27	0.64
G	H	J	K	wt	
.026	.070	.220	.035	grams	
0.66	1.78	5.59	0.89	0.15	

### Features

- wideband, 50 to 1000 MHz
- small size
- aqueous washable

### Applications

- VHF/UHF
- receivers/transmitters
- impedance matching
- biasing

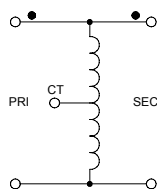
### Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS			RETURN LOSS (dB)
		3 dB MHz	2 dB MHz	1 dB MHz	
1	50-1000	—	—	50-1000	Min. 15

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	OUTPUT R. LOSS (dB)
50.00	0.18	40.67	40.14
80.00	0.20	39.29	37.75
200.00	0.22	34.96	32.40
300.00	0.25	32.97	30.03
350.00	0.26	32.10	29.14
500.00	0.29	30.18	27.15
600.00	0.31	28.78	26.10
650.00	0.32	28.11	25.64
800.00	0.36	25.99	24.28
1000.00	0.42	23.18	22.33

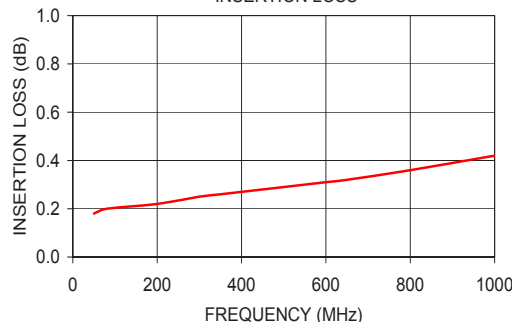
### Config. M



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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](http://www.minicircuits.com/MCLStore/terms.jsp)

TRS1-1T-13-2A+  
INSERTION LOSS



TRS1-1T-13-2A+  
RETURN LOSS

