

Surface Mount RF Transformer

50Ω 10 to 2200 MHz

TRS2-1T-13-2+



CASE STYLE: AT577

PRICE: contact sales department

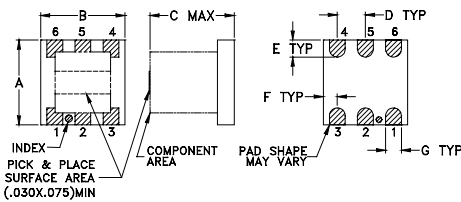
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

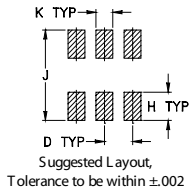
Pin Connections

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

Outline Drawing



PCB Land Pattern

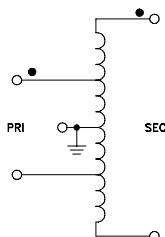


Suggested Layout,
Tolerance to be within ± 0.002

Outline Dimensions (inch)

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	

Config. L



Features

- wideband, 10 to 2200 MHz
- small size
- aqueous washable

Applications

- VHF/UHF
- receivers/transmitters
- impedance matching

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS
Compliance. See our web site for RoHS Compliance
methodologies and qualifications.

Transformer Electrical Specifications

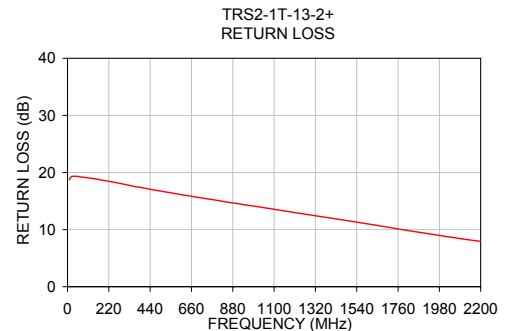
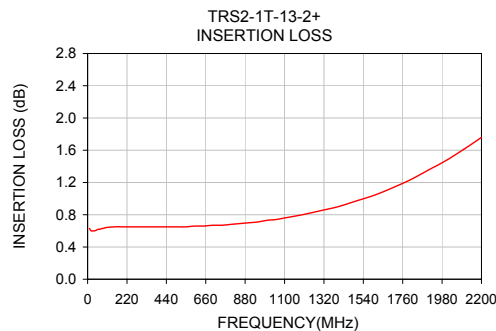
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
2	10-2200	—	10-2200	50-1000

* Insertion Loss is referenced to mid-band loss, 0.60 dB typ.

NON-CATALOG

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
10.00	0.63	18.73
50.00	0.61	19.31
100.00	0.64	19.10
300.00	0.65	17.95
500.00	0.65	16.72
800.00	0.68	15.11
1000.00	0.73	14.08
1500.00	0.97	11.51
2000.00	1.47	8.88
2200.00	1.76	7.94



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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IF/RF MICROWAVE COMPONENTS

REV. OR
M123063
ED-13383/2
TRS2-1T-13-2+
IG/CP/AM
090622

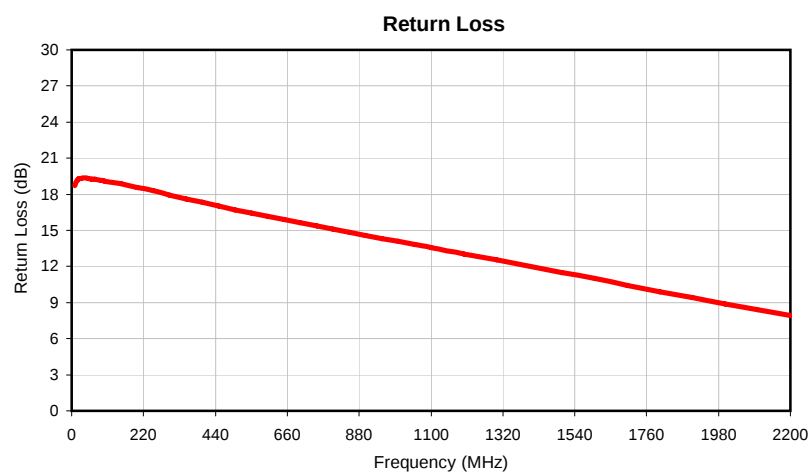
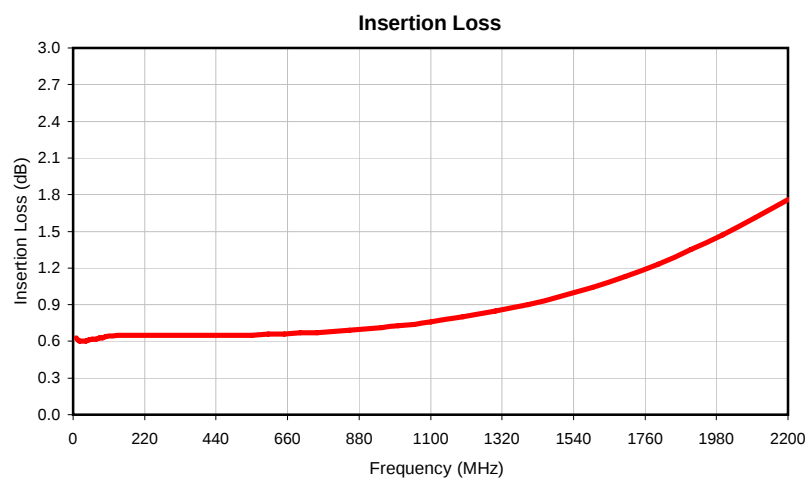
RF Transformer

TRS2-1T-13-2+

Typical Performance Data

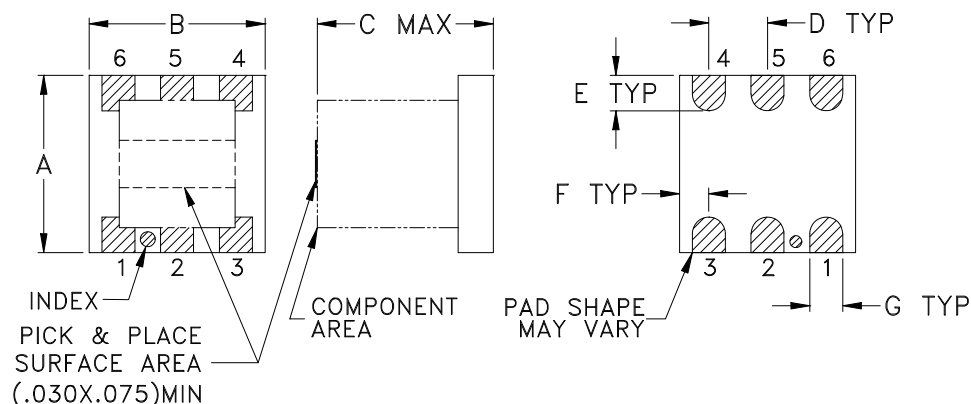
FREQUENCY MHz	INSERTION LOSS (dB)	RETURN LOSS (dB)
10.00	0.63	18.73
20.00	0.60	19.25
30.00	0.60	19.33
40.00	0.60	19.35
50.00	0.61	19.31
60.00	0.62	19.28
70.00	0.62	19.23
80.00	0.63	19.19
90.00	0.63	19.15
100.00	0.64	19.10
150.00	0.65	18.87
200.00	0.65	18.57
250.00	0.65	18.29
300.00	0.65	17.95
350.00	0.65	17.60
400.00	0.65	17.32
450.00	0.65	17.00
500.00	0.65	16.72
550.00	0.65	16.45
600.00	0.66	16.16
650.00	0.66	15.89
700.00	0.67	15.62
750.00	0.67	15.35
800.00	0.68	15.11
850.00	0.69	14.82
900.00	0.70	14.59
950.00	0.71	14.31
1000.00	0.73	14.08
1050.00	0.74	13.82
1100.00	0.76	13.56
1200.00	0.80	13.04
1300.00	0.85	12.53
1400.00	0.90	12.03
1500.00	0.97	11.51
1600.00	1.04	10.99
1700.00	1.13	10.45
1800.00	1.23	9.91
1900.00	1.35	9.39
2000.00	1.47	8.88
2100.00	1.61	8.39
2200.00	1.76	7.94

Typical Performance Data

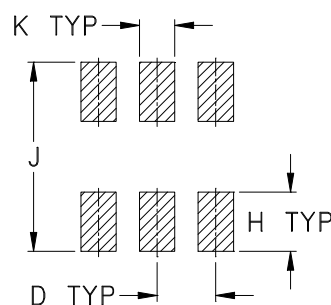


Outline Dimensions

AT577



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
AT577	.200 (5.08)	.200 (5.08)	.200 (5.08)	.075 (1.91)	.050 (1.27)	.025 (0.64)	.026 (0.66)	.070 (1.78)	.220 (5.59)	.035 (0.89)	-- --	.15

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

- Open style, ceramic base.
- Termination finish:
For RoHS Case Style: 2-10 μ inch (.05-.25 microns) Gold over 100-300 μ inch (2.54-7.62 microns) Nickel plate.
For RoHS-5 Case Style: Tin-Lead plate



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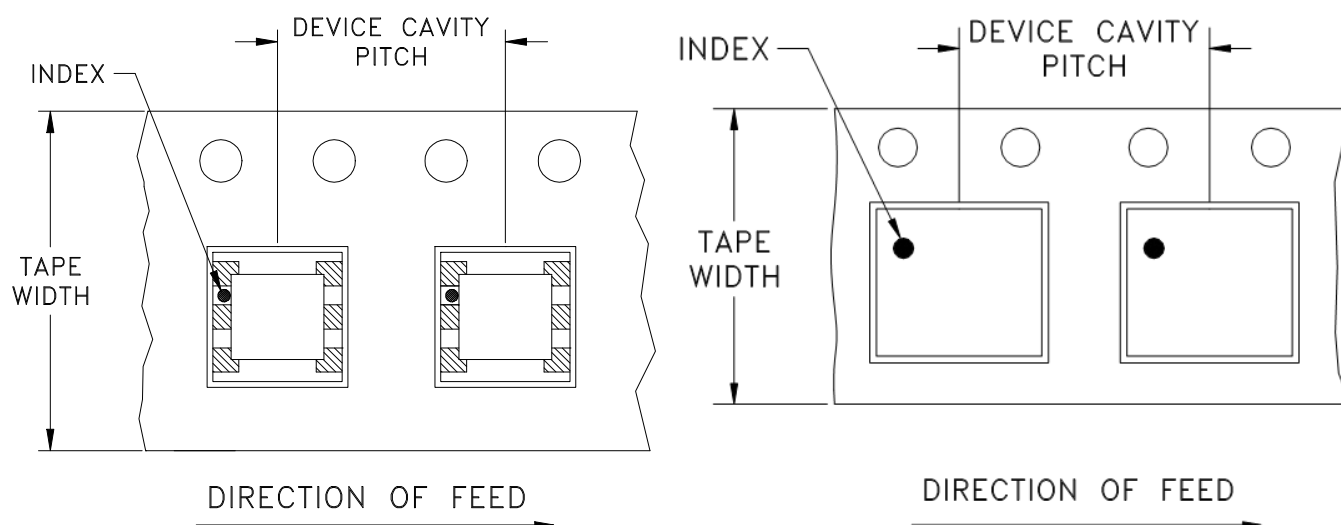


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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F73

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
12	8	7	Small quantity standards (see note)	20
				50
				100
				200
				500
		13	Standard	1000
				2000

Note: Please Consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



INTERNET <http://www.minicircuits.com>

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