100 to 50Ω

4 to 2500 MHz

The Big Deal

- Very wide bandwidth, 4 to 2500 MHz
- Low, flat insertion loss, 0.98-1.71 dB
- Good return loss, 20 dB typ. at 1 dB



CASE STYLE: AT577

Product Overview

The TRS2-252+ is a mini unbalanced-to-unbalanced, very wide bandwidth transformer measuring only 0.2" on all sides, with a flat top for pick and place compatibility. The rugged, wire-welded, rectangular-core design is RoHS-compliant, with an open style, aqueous washable, ceramic case and gold-plated terminals.

Feature	Advantages
Very wide bandwidth	4-2500 MHz frequency range for use in cable or broadcast TV & radio, GPS, cellular communications, avionics, and radar implementations
Very good, flat insertion loss	Insertion loss flatness ±0.35 across operating range maintains gain flatness when used as a step-up or step-down transformer in amplifier or filter circuitry
Good, flat return loss	22 ±4.7 dB return loss at 1 dB provides excellent matching for 50/100 Ω circuits

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-Circuits 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-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

RFTransformer

100 to 50Ω

4 to 2500 MHz

Generic photo used for illustration purposes only

CASE STYLE: AT577

TRS2-252+

+RoHS Compliant

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

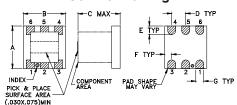
Maximum Ratings

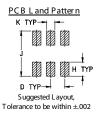
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.35W
DC Current	30mA
Pormanant damage may eccur if any	of these limits are avecade

Pin Connections

3
6
4
2
5

Outline Drawing





Outline Dimensions (inch)

Α	В	С	D	Е	F
.200	.200	.200	.075	.050	.025
5.08	5.08	5.08	1.91	1.27	0.64
G	Н	J	K		wt
G .026	H .070	J .220	K .035		wt grams

Config. D SEC

Features

- wideband, 4 to 2500 MHz
- good return loss, 20 dB typ. at 1dB band
- high IP2, 105 dBm typ.
- high IP3, 53 dBm typ.
- small size
- aqueous washable

Applications

- VHF/UHF
- receivers/transmitters
- impedance matching
- push-pull amplifiers

Electrical Specifications

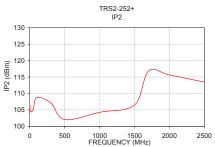
(S	Ω RATIO Secondary/Primary)	FREQUENCY (MHz)		INSERTION LOSS*	
			3 dB MHz	2 dB MHz	1 dB MHz
	2	4-2500	4-2500	8-2000	30-1500

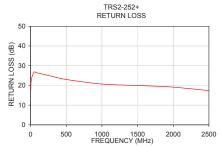
^{*} Insertion Loss is referenced to mid-band loss, 0.9 dB typ.

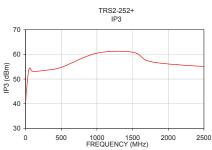
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	IP2 (dBm)	IP3 (dBm)
4.00	1.36	17.77	106.28	41.45
10.00	1.06	22.78	104.39	44.58
50.00	0.98	26.76	105.04	54.29
100.00	1.01	26.30	108.74	53.12
300.00	1.03	24.62	107.16	53.60
500.00	1.05	23.01	102.05	54.72
1000.00	1.15	20.69	104.26	60.50
1500.00	1.29	19.95	106.48	60.89
1700.00	1.35	19.70	116.81	57.50
2000.00	1.47	19.13	115.63	56.11
2500.00	1.71	17.37	113.45	55.08









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