75Ω 10 to 2200 MHz

The Big Deal

- Very wide band balun, with excellent performance from 10 MHz to 2.2 GHz
- Excellent amplitude unbalance, 0.3 dB typ
- Good return loss, 20 dB typ



CASE STYLE: AT577

Pricing: \$1.75 (QTY 100)

Product Overview

The TRS1-23-75+ is a balanced-to-unbalanced 75Ω transmission line transformer, 0.2" x 0.2" x 0.2" in size. This rugged, wire welded, rectangular core design is rated for up to 0.5W maximum power, in an aqueous washable case suitable for both RoHS and tin/lead solder systems.

Feature	Advantages				
Very wide bandwidth	10-2200 MHz bandwidth covers CATV (forward & return), medical wireless and D2A/A2D, and other communications applications				
Excellent amplitude and phase unbalance	0.4 dB amplitude and 3° phase unbalance aid rejection of even harmonics (in push-pull amplifiers) and common mode signals (when used as a balun)				
Good return loss	Provides excellent matching for 75Ω circuitry				
Low and flat insertion loss	Consistently low signal loss, ±0.2dB across all 50-1000 MHz CATV bands				

For detailed performance spec-& shopping online see web site

RF Transformer

10 to 2200 MHz 75Ω

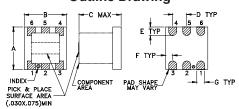
Maximum Ratings

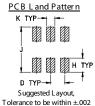
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.5W
DC Current	300mA
Permanent damage may occur if any	of these limits are exceeded.

Pin Connections

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

Outline Drawing





Outline Dimensions (inch)

Α	В	С	D	Ε	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	.035		wt grams



- suitable for tin/lead and RoHS solder systems
- wideband, 10 to 2200 MHz
- balanced transmission line
- good return loss, 20 dB typ. at 1 dB band
- excellent amplitude unbalance, 0.3 dB typ.
- aqueous washable

Applications

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS
- cable TV
- cellular

Features

PRICE: \$1.75 ea. QTY (100)

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

CASE STYLE: AT577

TRS1-23-75+

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

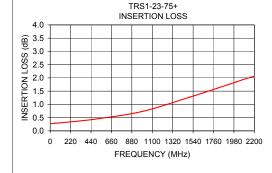
Transformer	^r Electrical	Specifica	tions at 25°	С

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		INSERTION LOSS* PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.		
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	10-2200	10-2200	30-1500	50-1000	3	5	0.4	0.6

*Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
10.00	0.27	30.06	0.58	6.13
30.00	0.29	34.11	0.58	2.24
50.00	0.29	34.32	0.55	1.33
100.00	0.30	32.46	0.51	0.30
500.00	0.45	27.73	0.33	2.61
1000.00	0.74	20.49	0.10	2.40
1500.00	1.27	13.21	0.27	1.23
1800.00	1.61	11.64	0.18	3.21
2000.00	1.84	10.99	0.05	4.05
2200.00	2.06	10.63	0.14	4.39





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantity at minicipcuits.com IF/RF MICROWAVE COMPONENTS

REV. OR