RF Transformer

TC1-1-43A+

50Q

650 to 4000 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power	250mW			
DC Current	30mA			
Permanent damage may occur if any of these limits are exceeded				

Pin Connections

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

Features

- wideband, 650 to 4000 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 3 deg typ. in 1 dB bandwidth

FREQUENCY

(MHz)

650-4000

*Insertion Loss is referenced to mid-band loss, 0.5 dB tvp.

- plastic base with leads
- aqueous washable

Applications

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS

RATIO

• MMDS



CASE STYLE: AT224-1A

+RoHS Compliant

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



PHASE

UNBALANCE

(Deg.) Тур.

2 dB

bandwidth

1 dB

bandwidth

AMPLITUDE

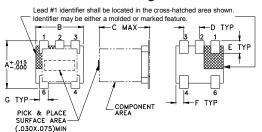
UNBALANCE (dB)

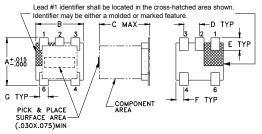
2 dB

0.5

1 dB

Outline Drawing AT224-1A







Outline Dimensions (inch)

F . 025 0.64	E . 040 1.02	D . 050 1.27	C .160 4.06	B . 150 3.81	A . 150 3.81
wt		.030	J .190	.065	G .028
0.15		0.76	4.83	1.65	0.71

PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Typical Performance Data

Electrical Specifications (T_{AMB}=25°C)

1 dB

MHz

800-3000

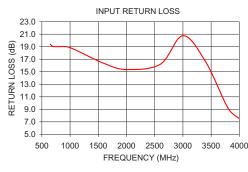
INSERTION LOSS*

2 dB

650-4000

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
650.00	0.30	19.40	0.72	7.04
700.00	0.30	19.03	0.70	6.11
800.00	0.32	19.01	0.65	4.73
1000.00	0.35	18.85	0.50	3.45
1600.00	0.45	16.34	0.15	0.32
2000.00	0.53	15.36	0.05	0.42
2600.00	0.62	16.20	0.40	0.66
3000.00	0.57	20.76	0.56	1.07
3800.00	1.34	9.18	0.41	4.79
4000.00	1.71	7.51	0.09	5.95





Config. G



- 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.

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