RF Transformer

50Q 5 to 300 MHz

Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Pormanant damage may occur if any o	f those limits are eveneded

Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

Features

- excellent amplitude unbalance (0.3 dB typ) and phase unbalance (5 deg. typ) in 1 dB bandwidth
- plastic base with leads
- good return loss
- aqueous washable

Applications

- impedance matching
- balanced antennas

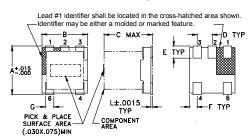
CASE STYLE: AT224-1 PRICE: \$2.29 ea. QTY (20) \$1.29 ea. QTY (100)

- Renefits
- Allows faster pick-and-place
- · Enables visual identification marking

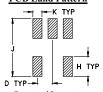
+RoHS Compliant

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

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt	1	K	J	Н	G
Wι	L	n.	J	п	(7
					-
grams	.007	.030	.190	.065	.028

Transformer Electrical Specifications

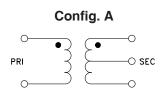
Ω	FREQUENCY		INSERTION LOSS*	
RATIO (Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
3	5-300	_	_	5-300

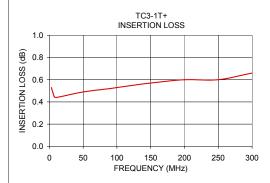
^{*} Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

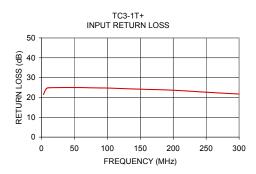
Available Tape and Reel at no extra cost				
Reel Size	Devices/Reel			
7"	20, 50, 100, 200, 500			
13"	1000, 2000			

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
3.00	0.53	21.45	
7.00	0.45	24.23	
10.00	0.44	24.89	
50.00	0.49	24.99	
90.00	0.52	24.79	
100.00	0.53	24.74	
150.00	0.57	24.15	
200.00	0.60	23.65	
250.00	0.60	22.64	
300.00	0.66	21.73	







- 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.minicircuits.com/MCLStore/terms.jsp