# **RF Transformer**



Generic photo used for illustration purposes only

#### CASE STYLE: AT224-1

- Addition of Top hat™ feature
- 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



#### 50Q 5 to 300 MHz

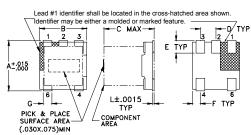
## **Maximum Ratings**

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

## **Pin Connections**

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

Outline Drawing AT224-1



#### **PCB Land Pattern**

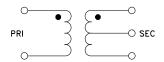


Tolerance to be within ±.002

#### 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	К	J	Н	G
***	_				_
grams	()()/	.030	.190	.065	.028
				.000	

## Config. A



#### **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

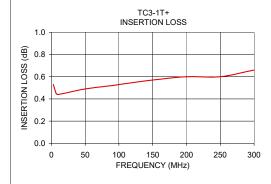
## **Transformer Electrical Specifications**

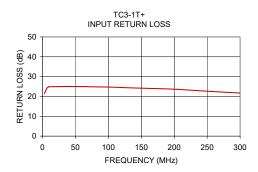
Ω	 FREQUENCY		INSERTION LOSS*	
(Secondary/	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
3	5-300	_	_	5-300

<sup>\*</sup> Insertion Loss is referenced to mid-band loss, 0.4 dB tvp.

#### **Typical Performance Data**

FREQUE (MHz		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

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