# Surface Mount **RF Transformer**

#### 50Q 5 to 300 MHz

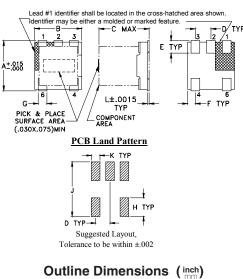
#### **Maximum Ratings**

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
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



<b>F</b>	<b>E</b>	D	C	<b>B</b>	<b>A</b>
.025	.040	.050	.160	. <b>150</b>	. <b>150</b>
0.64	1.02	1.27	4.06	3.81	3.81
wt	L	<b>K</b>	J	H	<b>G</b>
grams	.007	.030	. <b>190</b>	. <b>065</b>	.028
0.15	0.18	0.76	4.83	1.65	0.71

### Config. A C PRI O SEC С

#### **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



Upgraded Version\*

#### Generic photo used for illustration purposes only

#### CASE STYLE: AT224-1 Addition of Top hat™ feature Benefits Allows faster pick-and-place Enables visual identification marking

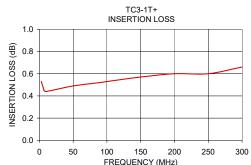
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

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 tvp.

#### **Typical Performance Data** FREQUENCY INSERTION INPUT (MHz) LOSS R. LOSS (dB) (dB) 21 45 3.00 0.53 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 24.74 0.53 150.00 0.57 24.15 200.00 0.60 23.65 22 64 250.00 0.60 300.00 0.66 21.73





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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

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BEV E M151107 TC3-1T+ ED-5914/1 IG/TD/CP/AM 151019 Page 1 of 1

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