# Surface Mount **RF Transformer**

#### 50Q 1.5 to 600 MHz

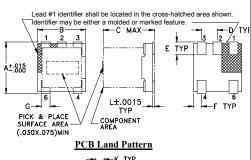
#### **Maximum Ratings**

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

#### **Pin Connections**

6
4
1
3
2

# Outline Drawing AT224-1

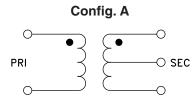




Tolerance to be within ±.002

#### Outline Dimensions (inch)

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



### **Features**

- wideband, 1.5-600 MHz
- good return loss
- plastic base with leads
- aqueous washable

## **Applications**

- CATV
- VHF/UHF receivers/transmitters



#### 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

ilable Tape and Reat at no extra cost Ava Reel Size , 200, 500

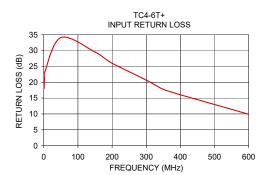
# **Transformer Electrical Specifications**

Ω	FREQUENCY	INSERTION LOSS*		
RATIO (Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
4	1.5-600	1.5-600	2-400	3-350
* Insertion Loss is referenced	to mid-band loss 0.6 dB tv	n		

# **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
1.00	0.99	18.04	
2.00	0.79	21.15	
3.00	0.69	23.26	
50.00	0.65	34.11	
150.00	0.79	29.54	
200.00	0.83	26.00	
300.00	0.95	20.67	
350.00	0.90	17.75	
400.00	1.10	16.06	
600.00	1.84	9.91	

#### TC4-6T+ INSERTION LOSS 5.0 INSERTION LOSS (dB) 4.0 3.0 2.0 1.0 0.0 100 0 400 500 600 200 300 FREQUENCY (MHz)



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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