# Surface Mount **RF Transformer**

### **50**Ω

G

PICK & PLACE SURFACE AREA

(.030X.075)MIN

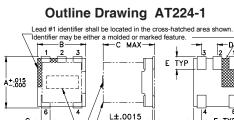
### 2 to 500 MHz

#### **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 of	f these limits are exceeded.

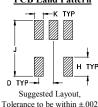
#### **Pin Connections**

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





TYP



Outline Dimensions (inch)

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

#### Config. A C PRI O SEC С

#### **Features**

- wideband, 2 to 500 MHz
- good return loss
- · plastic base with leads
- · aqueous washable

#### **Applications**

- push-pull amplifier
- impedance matching





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

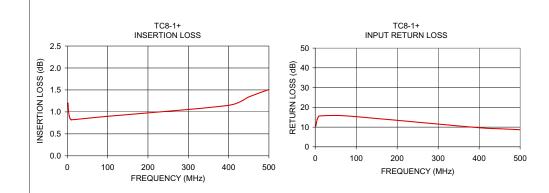
		Transforme	r Electrical Spe	cifications	
	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
			3 dB MHz	2 dB MHz	1 dB MHz
	8	2-500	2-500	5-400	10-100

\* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.



#### **Typical Performance Data**

Typical i chicilitatico Data					
	FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)		
	2.00	1.20	10.65		
	3.00	1.03	12.20		
	5.00	0.90	14.01		
	7.50	0.84	15.09		
	10.00	0.82	15.64		
	55.00	0.86	15.88		
	100.00	0.90	15.29		
	400.00	1.15	9.68		
	450.00	1.34	9.15		
	500.00	1.51	8.67		



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



REV. C M151107 TC8-1+ IG/TD/CP/AM 151019 Page 1 of 1

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

 $\frac{\text{Mini-Circuits:}}{\frac{\text{TC8-1+}}{2}}$