TC1-1-43+

# 650 to 4000 MHz

#### **Features**

- wideband, 650 to 4000 MHz
- balanced transmission line
- · good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 3 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

#### **Applications**

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS
- MMDS



Generic photo used for illustration purposes only

CASE STYLE: AT224-1A

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



#### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit	
Impedance Ratio					Ohm	
Frequency Range		650		4000	MHz	
Insertion Loss*	650-4000		2.0		dB	
	800-3000		1.0			
Phase Unbalance	800-3000		3		Deg.	
	650-4000		4			
Amplitude Unbalance	800-3000 650-4000		0.5		dB	
			0.5			

<sup>\*</sup>Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

#### **Maximum Ratings**

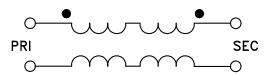
Devenuetes	Datinas		
Parameter	Ratings		
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25W		
DC Current	30mA		

Permanent damage may occur if any of these limits are exceeded.

#### **Pin Connections**

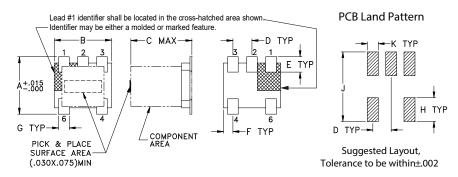
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2

Config. G





### **Outline Drawing**



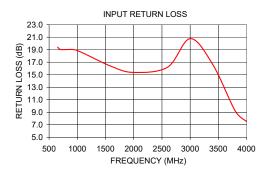
# Outline Dimensions (inch )

<b>F</b> . <b>025</b> 0.64	<b>E</b> . <b>040</b> 1.02	<b>D</b> . <b>050</b> 1.27	C .160 4.06	<b>B</b> . <b>150</b> 3.81	<b>A</b> . <b>150</b> 3.81
wt		.030	J .190	H .065	G .028
0.15		0.76	4 83	1 65	0.71

# **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
650.00	0.30	19.40	0.72	7.04
700.00	0.30	19.03	0.70	6.11
800.00	0.32	19.01	0.65	4.73
1000.00	0.35	18.85	0.50	3.45
1600.00	0.45	16.34	0.15	0.32
2000.00	0.53	15.36	0.05	0.42
2600.00	0.62	16.20	0.40	0.66
3000.00	0.57	20.76	0.56	1.07
3800.00	1.34	9.18	0.41	4.79
4000.00	1.71	7.51	0.09	5.95





#### **Additional 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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