# **RF Transformer**

# TC4-25+

## $50\Omega$

### 500 to 2500 MHz

**Maximum Ratings** 

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25 W
DC Current	30 mA
D 11 " 1	0 0 0 1

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

#### **Pin Connections**

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

#### **Features**

- wideband, 500-2500 MHz
- balanced transmission line with secondary center tap
- good return loss
- plastic base with leads
- aqueous washable

- cellular

CASE STYLE: AT224-1

#### +RoHS Compliant

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



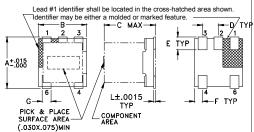
#### **Applications** • PCS

### **Transformer Electrical Specifications**

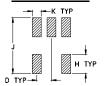
	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	0.40	INSERTION LOSS*	4.40
þ			3 dB MHz	2 dB MHz	1 dB MHz
	4	500-2500	500-2500	700-1500	750-1200

<sup>\*</sup> Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

#### **Outline Drawing AT224-1**



#### **PCB Land Pattern**



Suggested Layout, Tolerance to be within ±.002

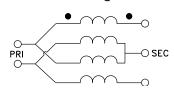
### **Typical Performance Data**

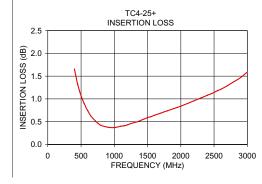
FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
400.00	1.66	6.09	
500.00	1.07	8.37	
600.00	0.74	10.92	
700.00	0.54	13.81	
800.00	0.42	17.29	
900.00	0.38	21.02	
1000.00	0.37	22.67	
1100.00	0.40	20.79	
1200.00	0.43	18.40	
1300.00	0.48	16.41	
1400.00	0.53	14.94	
1500.00	0.59	13.79	
1600.00	0.64	12.90	
1800.00	0.74	11.65	
2000.00	0.84	10.75	
2200.00	0.96	10.03	
2400.00	1.08	9.35	
2500.00	1.14	8.96	
2800.00	1.38	7.82	
3000.00	1.59	7.06	

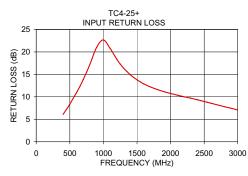
#### Outline Dimensions (inch)

F	E	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt	L	K	J	Н	G
grams	.007	.030	.190	.065	.028
0.15	0.18	0.76	4.83	1.65	0.71

#### Config. H







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.

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