# **RF Transformer**

# TC4-1W-17LN+

## $50\Omega$

# 100 to 500 MHz

#### **Maximum Ratings**

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC DWV	500V
DC Current (Primary)	0mA
DC Current (Secondary)	150mA*
Insulation Resistance Pri to Se	c 1M Ohms

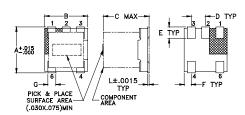
<sup>\*</sup>Applied through center tap, equal current to secondary dot & secondary.

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

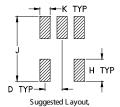
#### **Pin Connections**

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

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



#### PCB Land Pattern

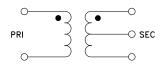


Tolerance to be within ±.002

#### 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	G
grams		.030	.190	.065	.028
0.15	0.18	0.76	4.83	1.65	0.71

#### Config. A



#### **Features**

- wideband, 100 to 500 MHz
- · good return loss
- · plastic base with leads
- aqueous washable

#### **Applications**

- push-pull amplifier
- · impedance matching



CASE STYLE: AT224-1 PRICE: \$1.19 ea. QTY (100)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify BoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

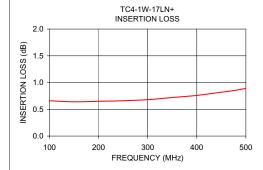
### **Transformer Electrical Specifications**

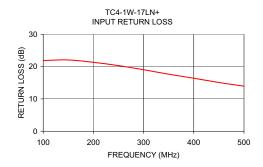
Ω RATIO (Secondary/ Primary)	FREQUENCY (MHz)	INSERTION LOSS*  1 dB  MHz	PHASE UNBALANCE (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Max.	RETURN LOSS (dB) Typ.
4	100 - 500	100 - 500	3	1.0	10

\*Insertion Loss is referenced to mid-band loss, 0.6 dB tvp.

#### **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
100.00	0.66	21.89	
150.00	0.64	22.06	
200.00	0.65	21.32	
250.00	0.66	20.30	
300.00	0.68	19.03	
350.00	0.72	17.66	
400.00	0.76	16.40	
450.00	0.82	15.09	
475.00	0.85	14.51	
500.00	0.89	13.95	





For detailed performance specs

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