

Surface Mount RF Transformer

TC4-1W-17LN+

50Ω 100 to 500 MHz



CASE STYLE: AT224-1

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 Sec	1M Ohms

*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

Features

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

Applications

- push-pull amplifier
- impedance matching

+RoHS Compliant

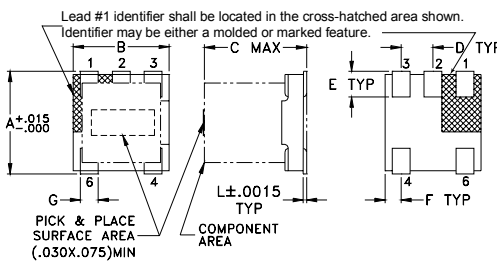
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Transformer Electrical Specifications

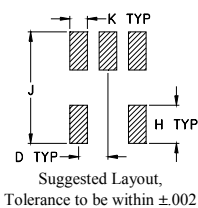
Ω RATIO (Secondary/ Primary)	FREQUENCY (MHz)	INSERTION LOSS*	PHASE UNBALANCE (Deg.) Typ.	AMPLITUDE UNBALANCE (dB) Max.	RETURN LOSS (dB) Typ.
4	100 - 500	1 dB MHz 100 - 500	3	1.0	10

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

Outline Drawing AT224-1



PCB Land Pattern



Outline Dimensions (inch/mm)

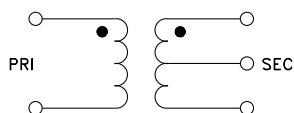
A	B	C	D	E	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64

G	H	J	K	L	wt
.028	.065	.190	.030	.007	grams
0.71	1.65	4.83	0.76	0.18	0.15

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

Config. A



Notes

- 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.
- 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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