

Surface Mount RF Transformer

TC9-1-75+

75Ω 0.3 to 475 MHz

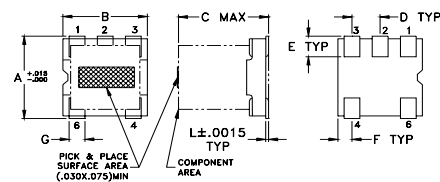
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA

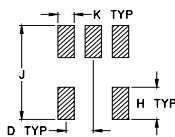
Pin Connections

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

Outline Drawing AT224-1



PCB Land Pattern

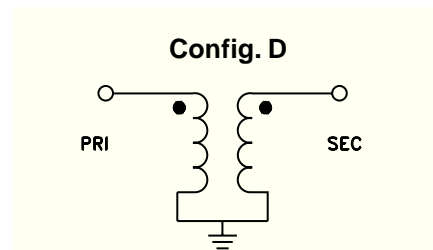


Suggested Layout,
Tolerance to be within ±.002

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

Demo Board MCL P/N: TB-276

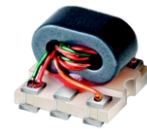


Features

- wideband 0.3-475 MHz
- good return loss, 23 dB typ in 1 dB bandwidth
- aqueous washable
- step-down 9:1 autotransformer

Applications

- matching laser diode



CASE STYLE: AT224-1
PRICE: \$1.59 ea. QTY (100)

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

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

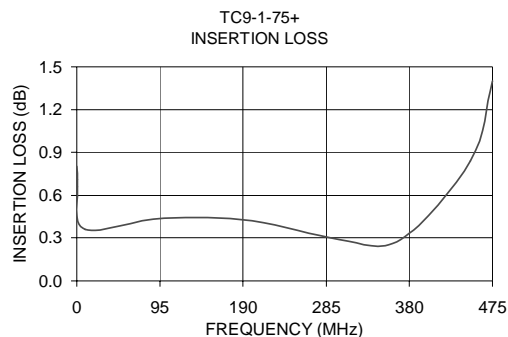
Transformer Electrical Specifications

MODEL NO.	Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
			3 dB MHz	2 dB MHz	1 dB MHz
TC9-1-75+	75/8	0.3-475	0.3-475	0.5-450	0.9-370

* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.
Stepdown, 75 ohm primary, 51 pF across secondary

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.30	0.80	14.70
0.50	0.71	16.80
0.90	0.66	18.13
10.00	0.36	22.63
100.00	0.44	22.86
200.00	0.42	22.40
300.00	0.29	23.48
370.00	0.29	18.53
450.00	0.84	9.48
475.00	1.40	7.44



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