

# Surface Mount RF Transformer

## TC9-1-75+

75Ω 0.3 to 475 MHz

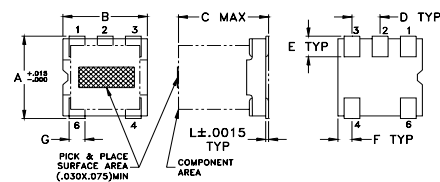
### Maximum Ratings

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

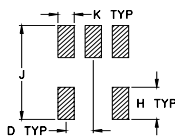
### Pin Connections

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

### Outline Drawing AT224-1



### PCB Land Pattern

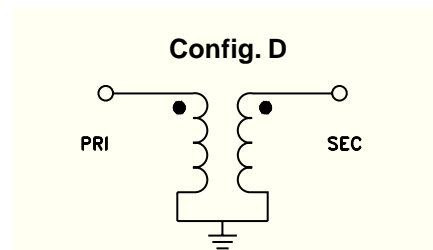


Suggested Layout,  
Tolerance to be within ±.002

### 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

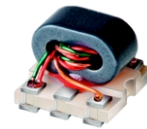


### Features

- 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.

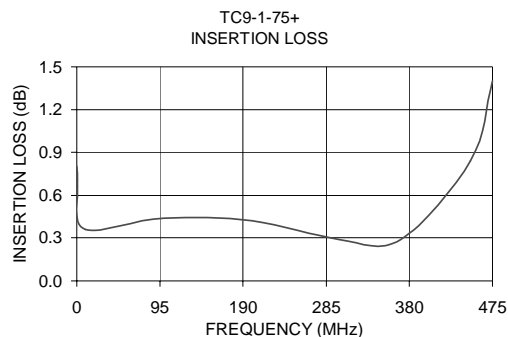
### Transformer Electrical Specifications

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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REV. B  
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060616