# **RF Transformer**

#### 75O 0.3 to 475 MHz

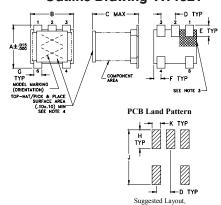
### **Maximum Ratings**

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any o	f those limits are eveneded

### Pin Connections

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

# **Outline Drawing AT1521**



- Notes:

  1. Case Material: Plastic

  2. Termination Finish: Tin plate over Nickel plate.

  3. Lead#1 identifier shall be located in the cross-hatched area shown, on bottom view. Identifier may be either a motided or marked feature.

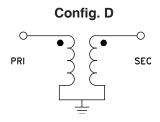
  4. Top-Hat total thickness: .013 inches max.

Tolerance to be within ±.002

# Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	Н	G
VVC			-		_
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

### Demo Board MCL P/N: TB-276



# **Features**

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

### **Applications**

• matching laser diode

# TC9-1-75X+





CASE STYLE: AT1521 PRICE: \$2.59 ea. QTY (20) \$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.

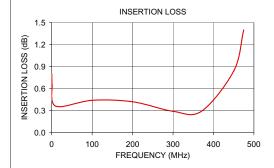
### **Transformer Electrical Specifications**

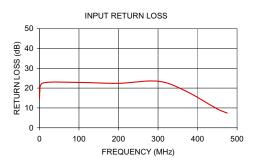
Ω	FREQUENCY	INSERTION LOSS*		
(Primary/Secondary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
75/8	0.3-475	0.3-475	0.5-450	0.9-370

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

### **Typical Performance Data**

FRI	EQUENCY (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	
1	00.00	0.44	22.86	
2	200.00	0.42	22.40	
3	300.00	0.29	23.48	
3	370.00	0.29	18.53	
4	50.00	0.84	9.48	
4	75.00	1.40	7.44	







For detailed performance specs