

# Surface Mount RF Transformer

50Ω 0.3 to 120 MHz

## T13-1T+



Generic photo used for illustration purposes only  
CASE STYLE: W38

### +RoHS Compliant

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

### 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 of these limits are exceeded.

### Pin Connections

PRIMARY DOT	4
PRIMARY	6
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2
NOT USED	5

### Features

- good return loss
- also available with surface mount gull wing (KK81) plug-in (X65) leads

### Applications

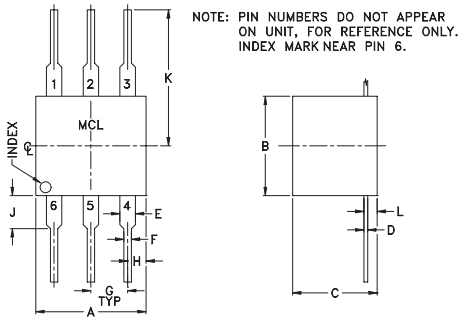
- VHF receivers/transmitters
- impedance matching

### Transformer Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
13	0.3-120	0.3-120	0.7-80	5-20

\*Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

### Outline Drawing



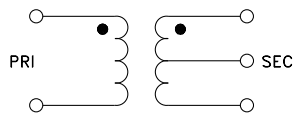
### Outline Dimensions (inch/mm)

A	B	C	D	E	F
.30	.27	.23	.010	.042	.020
7.62	6.86	5.84	0.25	1.07	0.51
G	H	J	K	L	wt
.100	.05	.09	.31	.036	grams
2.54	1.27	2.29	7.87	0.91	0.50

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.30	2.14	8.01
0.70	1.54	11.30
4.00	0.95	14.78
8.00	0.89	15.23
16.00	0.88	14.87
38.00	1.03	12.35
65.00	1.33	9.47
88.00	1.64	7.64
108.00	1.95	6.44
120.00	2.15	5.82

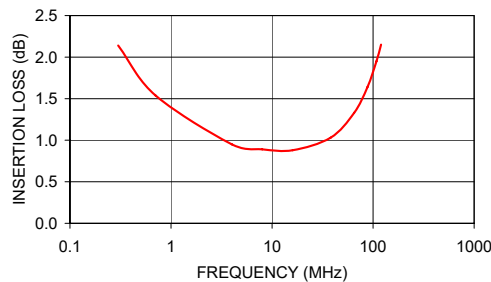
### Config. A



### 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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INSERTION LOSS



INPUT RETURN LOSS

