

# Plug-In RF Transformer

50Ω 0.15 to 250 MHz

T8-1-X65+  
T8-1-X65



Generic photo used for illustration purposes only  
CASE STYLE: X65

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

## Maximum Ratings

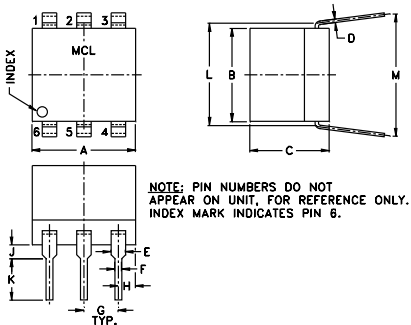
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded.

## Pin Connections

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

## Outline Drawing



## Outline Dimensions (inch)

A	B	C	D	E	F	G
.30	.27	.23	.010	.042	.020	.100
7.62	6.86	5.84	0.25	1.07	0.51	2.54

H	J	K	L	M	wt
.05	.04	.11	.300	.35	grams
1.27	1.02	2.79	7.62	8.89	0.50

## Features

- wideband, 0.15 to 250 MHz
- excellent return loss
- also available with flat-pack (W38) & surface mount gull-wing (KK81) leads

## Applications

- impedance matching
- communication systems

## Transformer Electrical Specifications

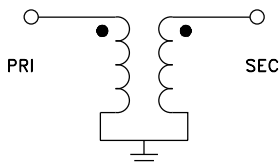
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
8	0.15-250	0.15-250	0.25-200	2-100

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

## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.15	2.55	6.30
0.75	1.06	14.36
6.00	0.63	18.72
28.00	0.61	17.34
73.00	0.73	12.07
120.00	0.90	8.32
170.00	1.21	5.67
210.00	1.53	4.20
235.00	1.79	3.49
250.00	2.00	3.14

## Config. D



## 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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