

# Plug-In RF Transformer

50Ω 0.01 to 100 MHz

## T2.5-6T-X65+ T2.5-6T-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	4
PRIMARY	6
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2
NOT USED	5

### Features

- wideband, 0.01 to 100 MHz
- excellent return loss
- also available with flat-pack (W38) & surface mount gull-wing (KK81) leads

### Applications

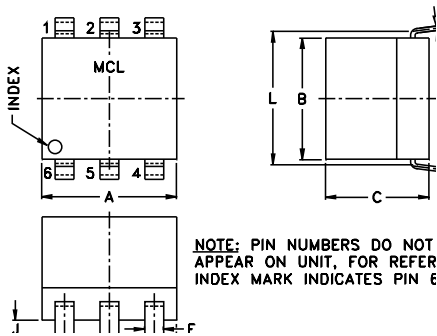
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifiers

### Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
2.5	0.01-100	0.01-100	0.02-50	0.50-20

\*Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

### Outline Drawing



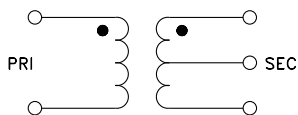
### Outline Dimensions (inch/mm)

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	

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.01	2.71	1.70
0.02	1.14	4.46
0.05	0.31	10.63
0.10	0.18	16.39
0.50	0.18	26.01
20.00	0.48	10.09
50.00	1.47	4.52
53.67	1.60	4.19
95.26	2.52	2.82
100.00	2.55	2.87

### 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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