Plug-In **RF Transformer** 0.02 to 250 MHz

50Ω

Maximum Ratings

Operating Temperature	-20°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power	0.25W			
DC Current	30mA			
Permanent demoge may ecour if any of these limits are eveneded				

Pin Connections

MCL

6 5 4

INDEX

A

.30

Н

.05

1.27

7.62

В

.27

J

.04

1.02

PRI

 \cap

6.86

С

.23

κ

.11

2.79

5.84

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

Outline Drawing

Outline Dimensions (inch)

D

L

.300

7.62

Config. A

.010

0.25

- D

NOTE: PIN NUMBERS DO NOT APPEAR ON UNIT, FOR REFERENCE ONLY. INDEX MARK INDICATES PIN 6.

Е

.042

1.07

Μ

.35

8.89

F

.020

0.51

-O SEC

 $\overline{}$

G

.100

2.54

wt

arams

0.50

Features

- wideband, 0.02 to 250 MHz
- excellent return loss
- also available with flat-pack (W38) & surface mount gull-wing (KK81) leads

Applications

- impedance matching
- push-pull amplifier

T4-6T-X65+ **T4-6T-X65**



Generic photo used for illustration purposes only CASE STYLE: X65

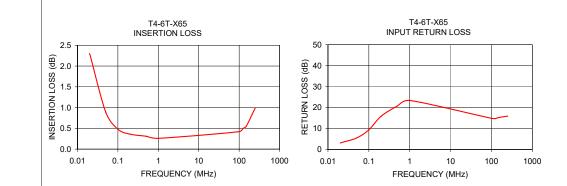
+RoHS Compliant

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

_	Transformer Electrical Specifications					
	Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			
			3 dB MHz	2 dB MHz	1 dB MHz	
	4	0.02-250	0.02-250	0.05-150	0.1-100	

*Insertion Loss is referenced to mid-band loss, 0.25 dB typ.

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.02	2.30	3.08	
0.05	0.89	5.47	
0.10	0.48	9.35	
0.20	0.36	15.86	
0.50	0.31	20.74	
1.00	0.26	23.39	
100.00	0.42	14.83	
125.01	0.50	14.73	
150.00	0.55	15.23	
250.00	0.99	15.91	



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Typical Performance Data

REV. B M151107 T4-6T-X65 IG/TD/CP/AM 200721



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

RF Transformer

Typical Performance Data

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0.02	2.30	3.08
0.05	0.89	5.47
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0.20	0.36	15.86
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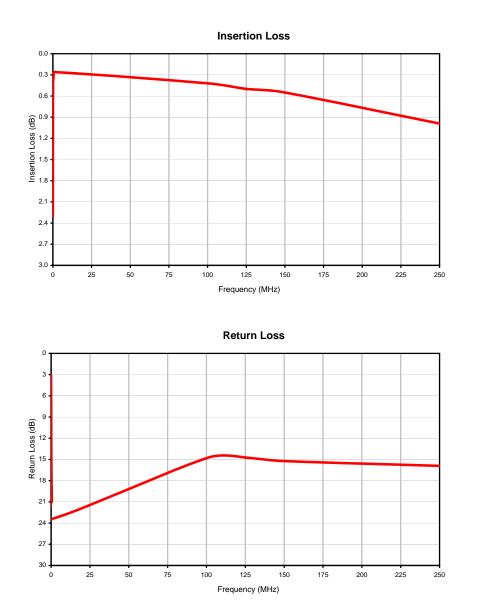


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RF Transformer

Typical Performance Curves





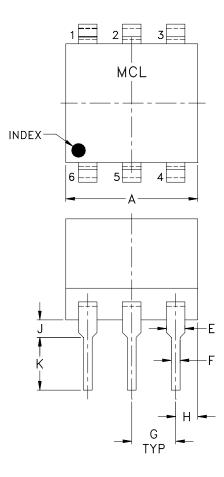
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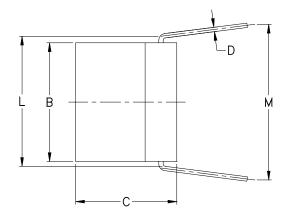
REV. X1 T4-6T-X65 060803 Page 2 of 2

Case Style

X65

Outline Dimensions





CASE #	А	В	С	D	Е	F	G	Н	J	К	L	М	WT. GRAM
X65	.30 (7.62)	.27 (6.86)	.23 (5.84)	.010 (0.25)	.042 (1.07)	.020 (0.51)	.100 (2.54)	.05 (1.27)	.04 (1.02)	.11 (2.79)	.300 (7.62)	.35 (8.89)	.50

Dimensions are in inches (mm)

Notes:

1. Case material: Plastic.

Termination finish: For RoHS Case Styles: Tin Plate over Nickel Plate. For RoHS-5 Case Styles: Tin-Lead Plate.



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Mini-Circuits

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-20° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Lead Integrity	2 Pound Pull, perpendicular to edge of unit	MIL-STD-202, Method 211, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215

ENV19 Rev: A 03/09/11 M131005 File: ENV19.pdf

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