Plug-In NON-CATALOG RF Transformer

50Ω

10 to 350 MHz

Maximum Ratings

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

Pin Connections

1 2 3

MCL

6 5 4

INDEX

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

Outline Drawing

Outline Dimensions (inch)

010

D

Т

.300

7.62

Config. A

•

С

23

к

.11

2.79

5.84

В

.1

.04

1.02

PRI

27

6.86

Α

н

.05

1.27

30

7.62

- 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

G

100

2.54

wt

grams

0.50

F

020

-O SEC

Features

- wideband, 10 to 350 MHz
- good return loss
- also available with flat-pack (W38)
- & surface mount gull-wing (KK81) leads

Applications

- VHF/UHF receivers
- impedance matching





CASE STYLE: X65

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

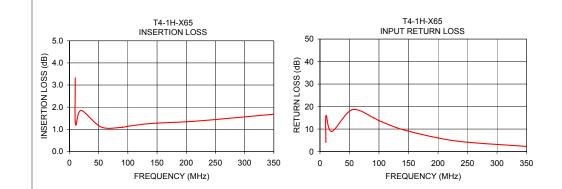
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			
		3 dB MHz	2 dB MHz	1 dB MHz	
4	10-350	10-350	15-300	25-200	

*Insertion Loss is referenced to mid-band loss, 1 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
 10.00	3.33	4.05	
10.31	1.22	16.05	
20.00	1.85	8.95	
54.15	1.10	18.56	
90.76	1.09	15.02	
99.52	1.13	13.84	
138.71	1.26	9.87	
200.59	1.34	6.03	
250.29	1.44	4.15	
350.00	1.68	2.29	



A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

RF Transformer

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
10.00	3.33	4.05
10.31	1.22	16.05
20.00	1.85	8.95
54.15	1.10	18.56
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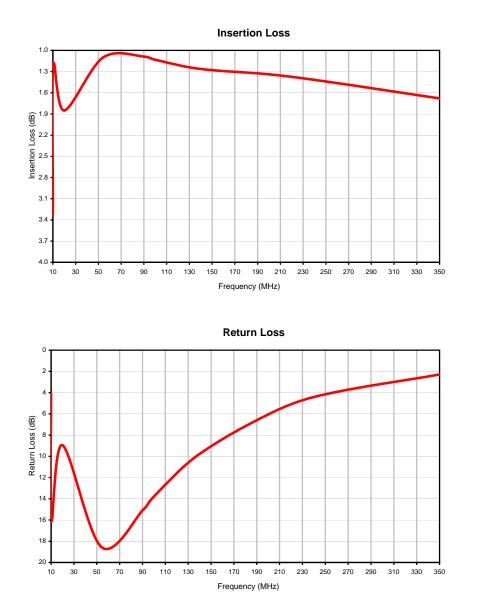


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RF Transformer

Typical Performance Curves



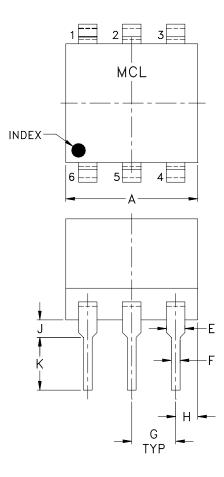
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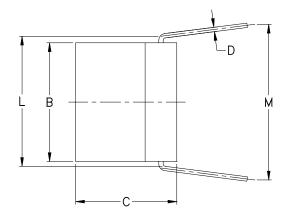
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Case Style

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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