RF Transformer

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

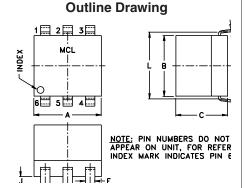
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA
Pormanent damage may eccur if any	of those limits are eveneded

Pin Connections

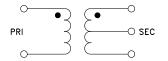
4
6
3
1
2
5



Outline Dimensions (inch)

G	F	E	D	С	В	Α
.100	.020	.042	.010	.23	.27	.30
2.54	0.51	1.07	0.25	5.84	6.86	7.62
wt		М	L	K	J	Н
wt grams		M .35	.300	K .11	J .04	H .05

Config. A



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

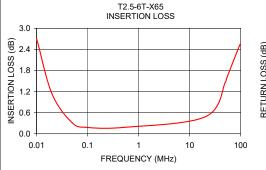
Transformer Electrical Specifications

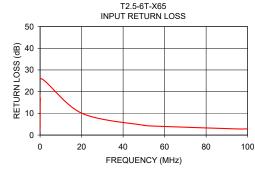
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
2.5	0.01-100	0.01-100	0.02-50	0.50-20

^{*}Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

Typical Performance Data

FREQUE((MHz)		N 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	





- 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 ins.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Terms"): Purchases of this part. 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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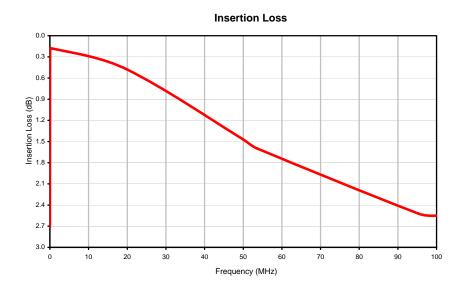
RF Transformer T2.5-6T+

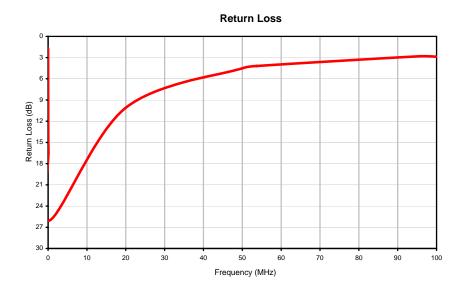
Typical Performance Data

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RF Transformer T2.5-6T+

Typical Performance Curves



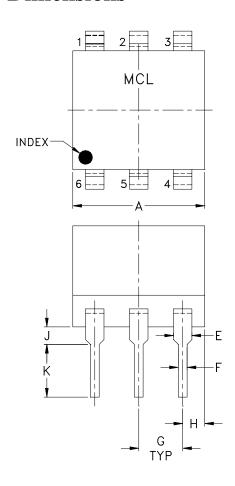


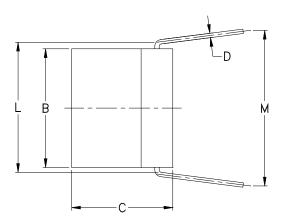
Case Style

X

Outline Dimensions

X65





CASE#	A	В	С	D	Е	F	G	Н	J	K	L	M	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.



INTERNET http://www.minicircuits.com

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Mini-Circuits ISO 9001 & ISO 14001 Certified



Environmental Specifications

ENV19

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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