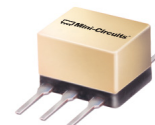


Surface Mount RF Transformer

50Ω 0.01 to 50 MHz

TT2.5-6+
TT2.5-6



CASE STYLE: W38

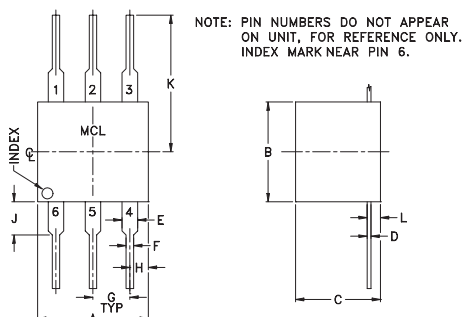
Maximum Ratings

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
PRIMARY CT	5
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2

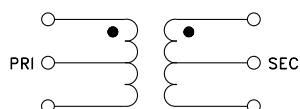
Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F
.30	.27	.23	.010	.042	.020
7.62	6.86	5.84	0.25	1.07	0.51
G	H	J	K	L	wt
.100	.05	.09	.31	.036	grams
2.54	1.27	2.29	7.87	0.91	0.50

Config. B



Features

- excellent return loss
- also available with surface mount gull wing (KK81) plug-in (X65) leads

Applications

- HF/VHF
- impedance matching
- radio communication

Transformer Electrical Specifications

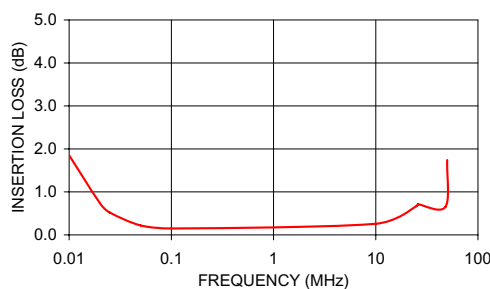
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
2.5	0.01-50	0.01-50	0.025-25	0.05-10

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

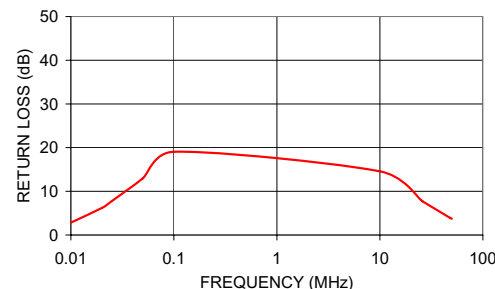
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.01	1.85	2.83
0.02	0.74	6.20
0.03	0.52	7.77
0.05	0.22	12.98
0.10	0.15	19.05
10.00	0.26	14.59
25.00	0.67	8.03
25.89	0.71	7.73
48.08	0.65	3.91
50.00	1.74	3.73

TT2.5-6
INSERTION LOSS



TT2.5-6
INPUT RETURN LOSS



Notes

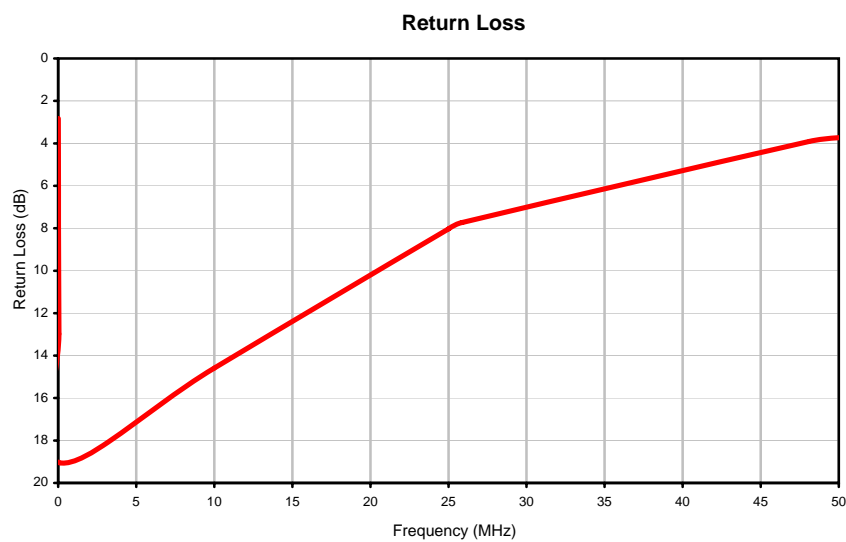
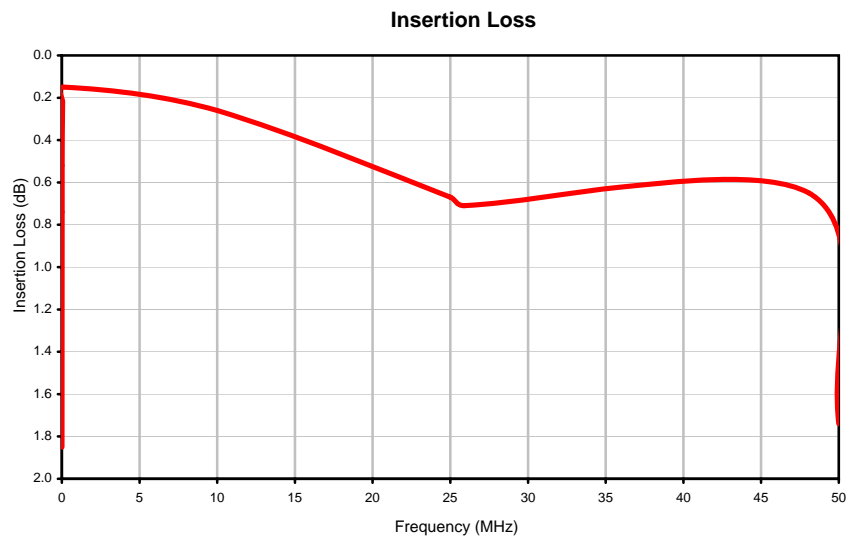
- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits 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



Typical Performance Data

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25.89	0.71	7.73
48.08	0.65	3.91
50.00	1.74	3.73

Typical Performance Curves



Outline Dimensions

W38



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
W38	.30 (7.62)	.27 (6.86)	.23 (5.84)	.010 (0.25)	.042 (1.07)	.020 (0.51)	.100 (2.54)	.05 (1.27)	.09 (2.29)	.31 (7.87)	.036 (0.91)	.50

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3 Pl. $\pm .015$.

Notes:

- 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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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