Non-Catalog Model

RF Transformer

Impedance Ratio: 16:1

T16-1T+
T16-1T

CASE STYLE: W38

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.

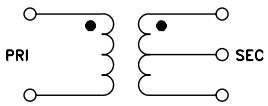
Please click ”Back”, and then click “Contact Us” for Applications support.

ELECTRICAL SPECIFICATIONS 50Ω @+25°C PIN=0 dBm					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		0.3		120	MHz
Insertion Loss*	3dB bandwidth	0.3		120	MHz
	2dB bandwidth	0.7		80	MHz
	1dB bandwidth	5		20	MHz

*Referenced to midband loss .9dB typ.

MAXIMUM RATINGS	
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA

Configuration A



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

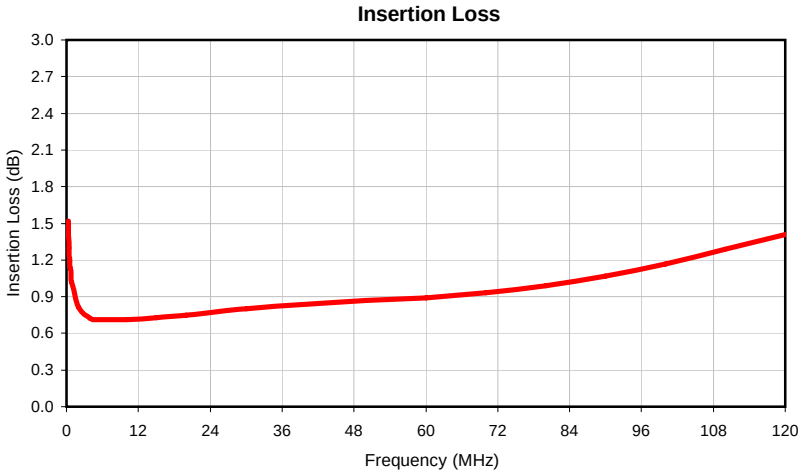
RF Transformer T16-1T

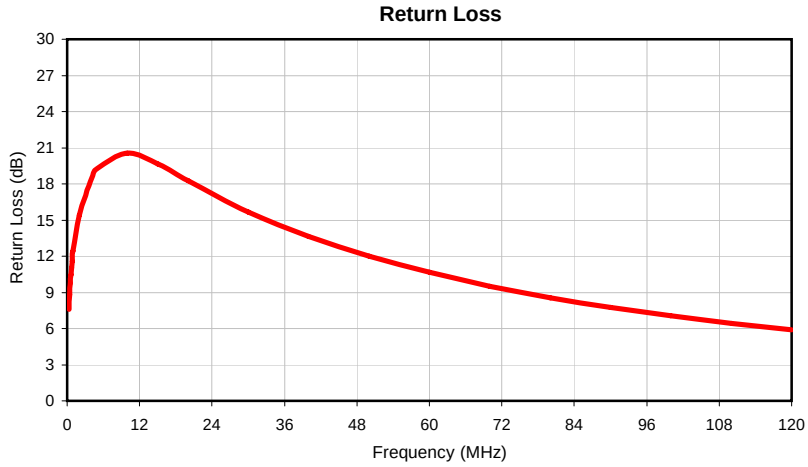
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.30	1.52	7.57
0.40	1.30	8.82
0.50	1.19	9.76
0.60	1.13	10.47
0.70	1.09	11.06
0.80	1.05	11.57
0.90	1.02	12.03
1.00	1.00	12.43
2.00	0.81	15.38
4.00	0.72	18.43
5.00	0.71	19.30
10.00	0.71	20.53
15.00	0.73	19.63
20.00	0.75	18.25
30.00	0.80	15.67
40.00	0.84	13.62
50.00	0.87	11.99
60.00	0.89	10.66
70.00	0.93	9.53
80.00	0.99	8.57
90.00	1.07	7.76
100.00	1.17	7.04
110.00	1.29	6.44
120.00	1.41	5.90

RF Transformer T16-1T

Typical Performance Data

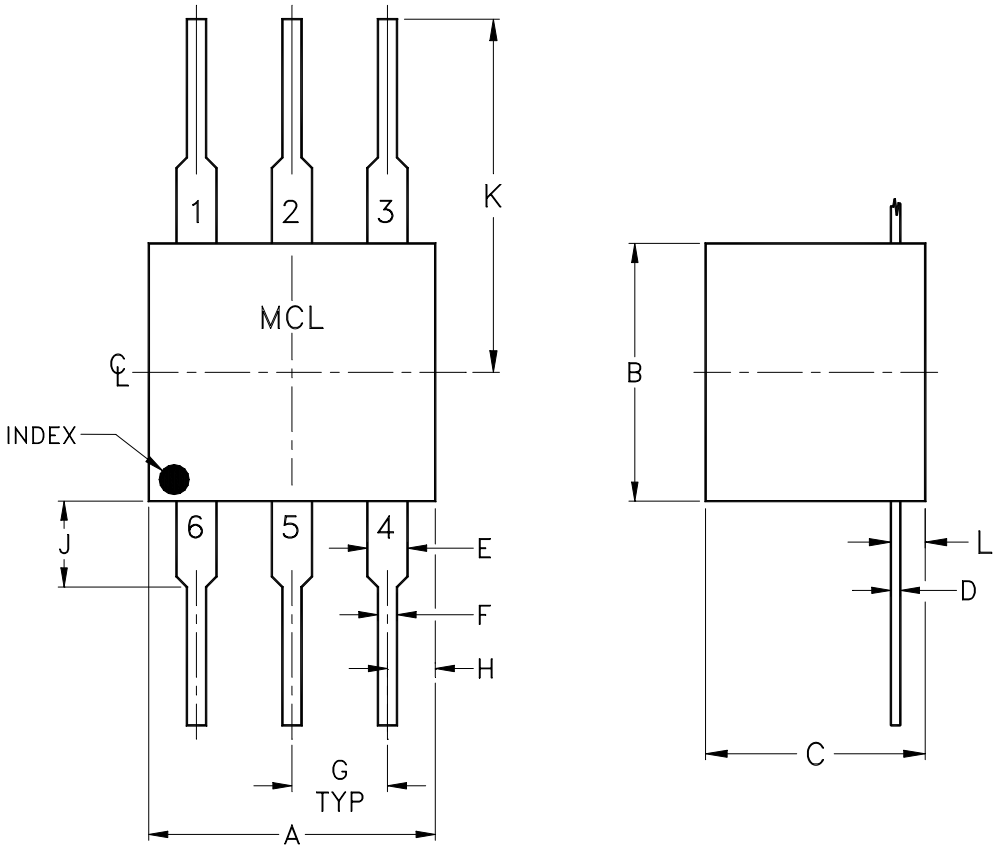




Case Style W

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. ± .03; 3 Pl. ± .015.

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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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