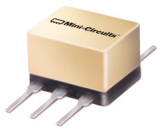
Surface Mount

RF Transformer

50Ω 0.5 to 800 MHz

T3-1+



CASE STYLE: W38

+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

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

Features

- wideband, 0.5 to 800 MHz
- good return loss
- also available with surface mount gull wing (KK81) plug-in (X65) leads

Applications

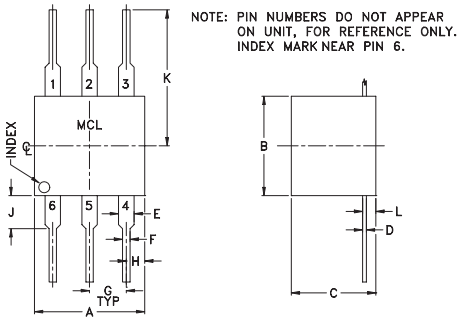
- impedance matching
- VHF/UHF

Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
3	0.5-800	0.5-800	2-400	—

* Insertion Loss is referenced to mid-band loss, 1.25 dB typ.

Outline Drawing



Outline Dimensions (inch / mm)

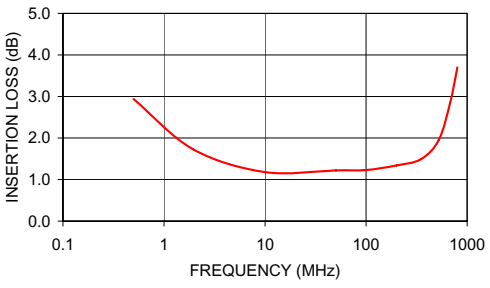
A	B	C	D	E	F
.30	.27	.23	.010	.042	.020
7.62	6.86	5.84	0.25	1.07	0.51

G	H	J	K	L	wt
.100	.05	.09	.31	.036	grams
2.54	1.27	2.29	7.87	0.91	0.50

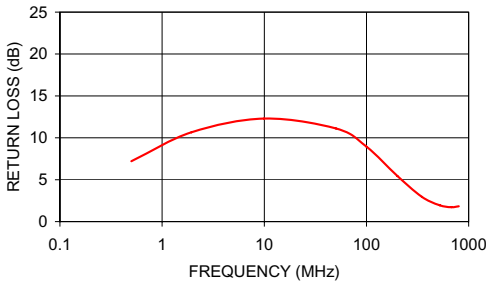
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.500	2.940	7.210
1.940	1.730	10.660
9.923	1.180	12.300
50.297	1.220	11.120
99.524	1.230	8.970
200.594	1.340	5.440
348.840	1.490	2.960
523.423	1.950	1.940
677.637	2.840	1.720
800.000	3.700	1.830

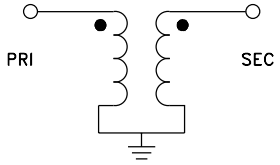
T3-1+
INSERTION LOSS



T3-1+
INPUT RETURN LOSS



Config. D



Notes

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-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