Surface Mount
RF Transformer

TX1.5-1+

50Ω   0.25 to 300 MHz

CASE STYLE: TT240

Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

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

Features
• wideband, 0.25 to 300 MHz
• excellent return loss

Applications
• impedance matching
• VHF/UHF
• receivers/transmitters

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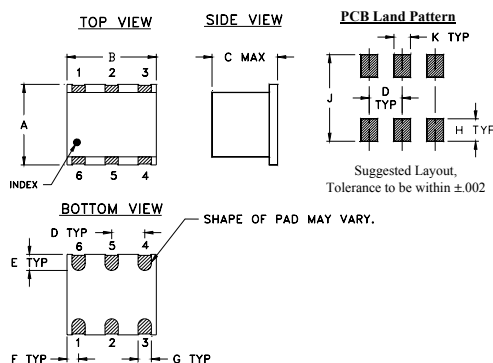
PRIMARY DOT	4
PRIMARY	6
SECONDARY DOT	3
SECONDARY	1
NOT USED	2,5

Outline Drawing

TOP VIEW   SIDE VIEW   PCB Land Pattern

Suggested Layout,
Tolerance to be within ±.002

BOTTOM VIEW

Transformer Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1.5	0.25-300	0.25-300	0.3-150	0.5-80

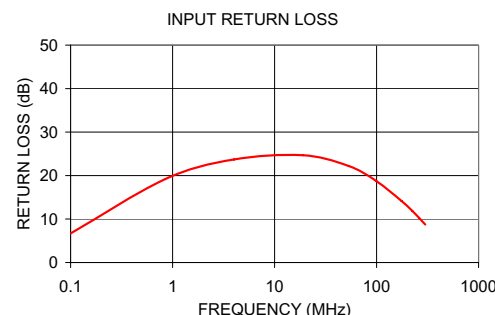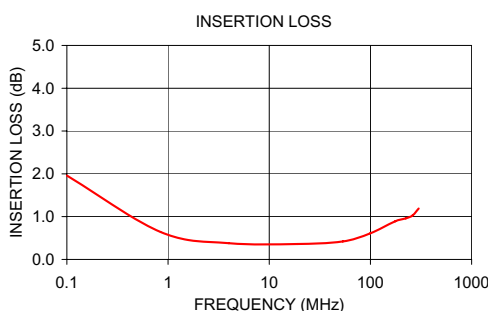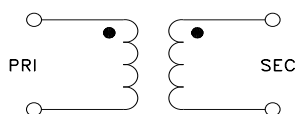* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

Outline Dimensions (inch / mm)

A	B	C	D	E	F
.250	.31	.20	.100	.050	.055
6.35	7.87	5.08	2.54	1.27	1.40

G	H	J	K		wt
.040	.070	.270	.050		grams
1.02	1.78	6.86	1.27		0.50

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.10	1.96	6.70
0.85	0.64	19.19
4.00	0.38	23.71
18.93	0.36	24.68
53.35	0.42	22.20
99.34	0.61	18.74
175.64	0.89	14.16
223.68	0.96	11.88
261.29	1.03	10.26
300.00	1.19	8.75

Config. C

PRI   SEC

INSERTION LOSS

INPUT RETURN LOSS

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

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