



Mini-Circuits

SURFACE MOUNT 

RF Transformer

TC16-161TX+

50Ω 0.6 to 160 MHz

FEATURES

- Plastic base with solder plated leads
- Excellent amplitude unbalance, 0.1dB typ. and phase unbalance, 0.5 deg. typ.



Generic photo used for illustration purposes only

CASE STYLE: AT1521

APPLICATIONS

- Impedance matching
- Balanced amplifier

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary / primary)			16		Ohm
Frequency Range		0.6		160	MHz
Insertion Loss*	0.6-160		3		dB
	1.5-120		2		
	3-80		1		

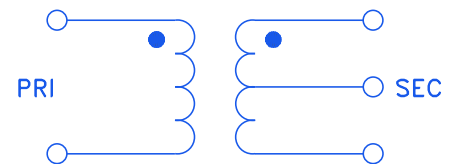
* Insertion Loss is referenced to mid-band loss, 0.7 dB typ.

MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-40°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.

CONFIG. A



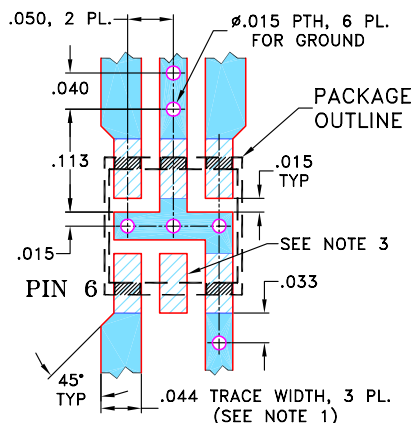
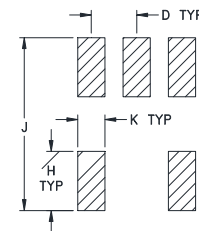
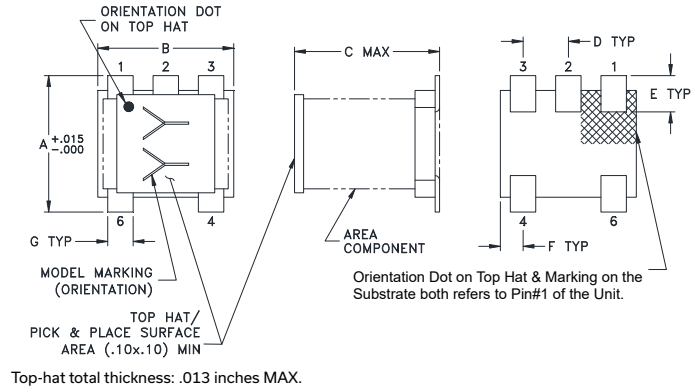
REV. B
ECO-021763
TC16-161T+
MCL NY
240506





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Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2
NOT USED	5



1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" $\pm$.0015"; COPPER: 1/2 OZ. ON EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. THIS PAD IS NOT REQUIRED FOR AT224 CASE STYLE.

A	B	C	D	E	F	G	H	J	K
.150	.150	.160	.050	.040	.025	.028	.065	.190	.030
3.81	3.81	4.06	1.27	1.02	0.64	0.71	1.65	4.83	0.76

Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



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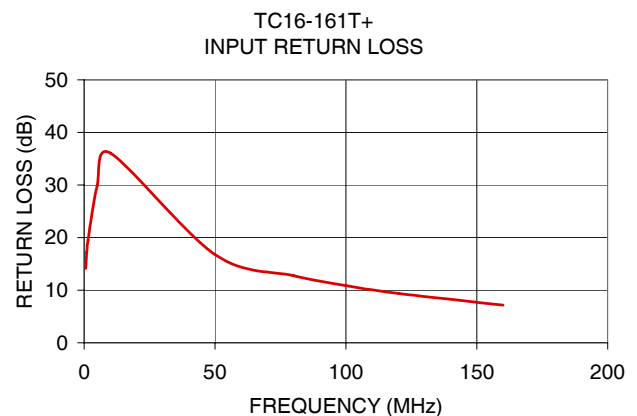
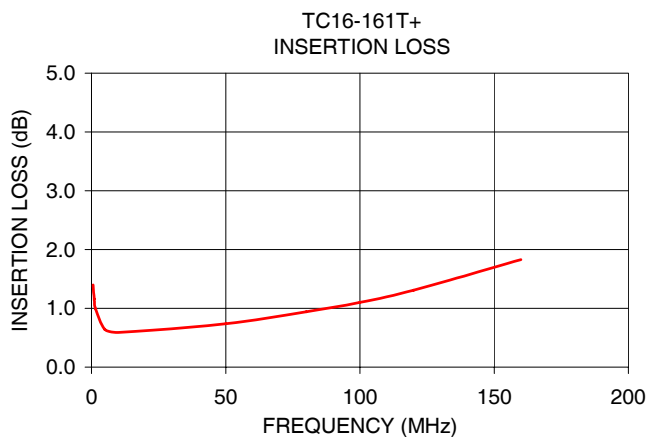
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TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.60	1.40	14.15
1.00	1.16	17.14
1.50	0.99	19.51
5.00	0.64	29.93
10.00	0.59	36.06
50.00	0.74	16.77
80.00	0.94	12.74
100.00	1.10	10.87
120.00	1.31	9.38
160.00	1.83	7.18



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-Circuits' 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/terms/viewterm.html



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