Surface Mount **T** 4.5 to 3000 MHz

75Ω

Features

- wideband, 4.5 to 3000 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance, 0.7 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

TC1-1-13M-75X+



Generic photo used for illustration purposes only

CASE STYLE: AT1521

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



Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		Ohm
Frequency Range		4.5		3000	MHz
	2000 - 3000		3.0		dB
Insertion Loss*	1000 - 2000		2.0		
	4.5 - 1000		1.0		
Amplitude Unholones	1000 - 2000		0.5		dB
Amplitude Unbalance	4.5 - 1000		0.7		
Phase Unbalance	1000 - 2000		3.0		Degree
	4.5 - 1000		2.0		

* Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

Maximum Ratings

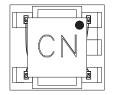
Parameter	Ratings		
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25W		
DC Current	30mA		

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

Pin Connections

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

Product Marking

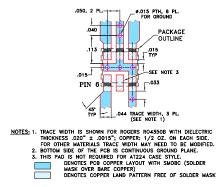


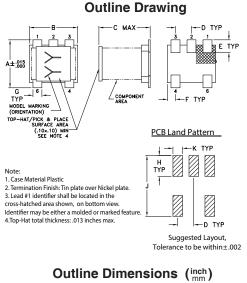
Config. G



TC1-1-13M-75X+

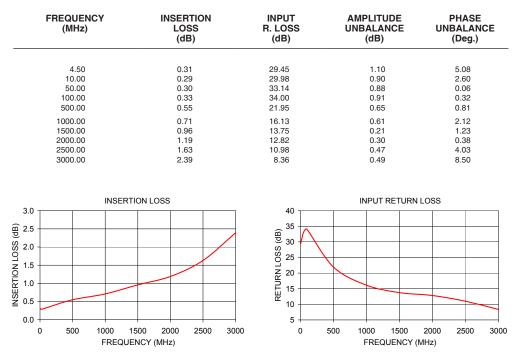
Demo Board MCL P/N: TB-145+ Suggested PCB Layout (PL-244)





F	E	D	C	В	A
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	H	G
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

Typical Performance Data



Additional 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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