

Mini-Circuits 50Ω

FEATURES

- Wideband, 0.5-2200 MHz,
- Excellent return loss
- Terminations, solder plated with nickel barrier for solderability & excellent each resistance
- Autotransformer
- Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only CASE STYLE: AT1521

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our website for methodologies and qualification:

APPLICATIONS

Impedance matching

ELECTRICAL SPECIFICATIONS AT +25°C

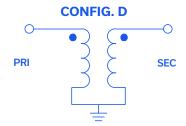
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			1.5		Ohm
Frequency Range		0.5		2200	MHz
	0.5 - 2200		3.0		
Insertion Loss*	1 - 2000		2.0		dB
	2 - 1100		1.0		

* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

MAXIMUM RATINGS

Parameter	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.



REV. B ECO-021661 TC1.5-1X+ MCL NY 240501

Mini-Circuits

TC1.5-1X+



SURFACE MOUNT TOPHAT RF Transformer

TC1.5-1X+

Mini-Circuits

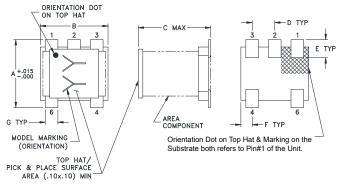
50Ω 0.5 to 2200 MHz

PIN CONNECTIONS

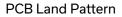
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	4
NOT USED	2,3

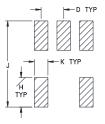
PRODUCT MARKING: CS

OUTLINE DRAWING



Top-hat total thickness: .013 inches MAX.





Suggested Layout, Tolerance to be within ±.002

OUTLINE DIMENSIONS (Inch)

	Α	В	С	D	E	F	G	Н	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 grome										

Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



RF Transformer

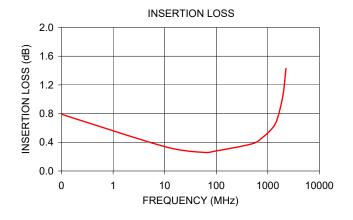


 \square Mini-Circuits 50 Ω

Ω 0.5 to 2200 MHz

TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.10	0.79	9.30
10.00	0.34	32.27
55.00	0.26	34.33
100.00	0.28	31.27
500.00	0.38	21.15
800.00	0.47	17.71
1200.00	0.59	15.28
1500.00	0.71	16.70
1950.00	1.04	25.47
2250.00	1.43	11.82





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/terms/viewterm.html

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