RF Transformer

TC1-33-75-5+

750

5 to 3000 MHz

Maximum Ratings

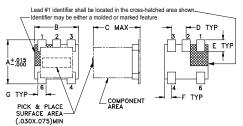
Operating Temperature	-40°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

Permanent damage may occur if any of these limits are

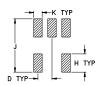
Pin Connections

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

Outline Drawing



PCB Land Pattern

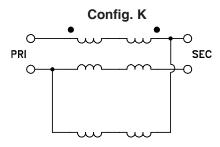


Suggested Layout, Tolerance to be within±.002

Test board for TC1-33-75-5+ is TB-145+

Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	Н	G
			-		-
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71



Features

- suitable for tin/lead and RoHS solder systems
- wideband, 5 to 3000 MHz
- · balanced transmission line
- good return loss, 20 dB typ. at 1 dB band
- excellent amplitude unbalance, 0.3 dB typ. and phase unbalance, 3 deg typ. in 1 dB bandwidth
- · aqueous washable

Generic photo used for illustration purposes only

CASE STYLE: AT224-1A

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

Applications

- balanced to unbalanced transformation
- · push-pull amplifiers
- PCS/DCS
- cable TV
- cellular

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		:1
Frequency Range		5		3000	MHz
Insertion Loss¹	5 - 1200			1	
	1200 - 2000			2	dB
	2000 - 3000			3	
Phase Unbalance	5 -1200		3		Deg.
	1200 - 2000		4		
Amplitude Unbalance	5 - 1200		0.3		dB
	1200 - 2000		1		

1. Insertion Loss is referenced to mid-band loss, 1.0 dB typ.

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

