RF Transformer

TCL1-11+

50Q

600 to 1100 MHz

Maximum Ratings

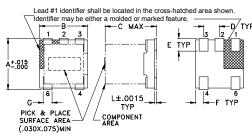
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25 W
DC Current	30 mA

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

Pin Connections

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

Outline Drawing AT224-1



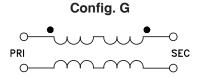
PCB Land Pattern



Suggested Layout Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	C	B	A
.025	. 040	. 050	.160	. 150	. 150
0.64	1.02	1.27	4.06	3.81	3.81
wt	L	K	J	H	G
grams	. 007	. 030	. 190	. 065	. 028
0.15	0.18	0.76	4.83	1.65	0.71



- wideband, 600 to 1100 MHz
- balanced transmission line
- excellent amplitude unbalance, 0.6 dB typ.
- excellent phase unbalance, 8 deg typ.
- plastic base with leads
- aqueous washable

Applications

- cellular
- baluns
- impedance matching

Features

CASE STYLE: AT224-1

+RoHS Compliant

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



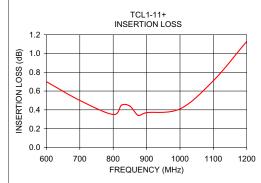
Transformer Electrical Specifications

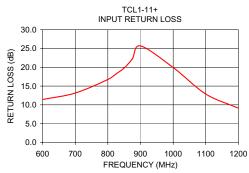
MODEL	Ω	FREQUENCY (MHz)	INSERTION LOSS*	
NO.	RATIO		2 dB MHz	1 dB MHz
TCL1-11+	1	600-1100	600-1100	700-1000

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

Typical Performance Data

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FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
600.00	0.70	11.42	
700.00	0.50	13.14	
800.00	0.35	16.75	
825.00	0.45	18.23	
850.00	0.44	19.80	
875.00	0.34	22.25	
900.00	0.37	25.70	
1000.00	0.41	19.94	
1100.00	0.71	12.88	
1200.00	1.13	9.11	





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.ninicircuits.com/MCLStore/terms.jsp