Surface Mount RF Transformer

4.5 to 3000 MHz

Features

- suitable for tin/lead and RoHS solder systems
- wideband, 4.5 to 3000 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

Applications

- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS

• MMDS

Electrical Specifications at 25°C					
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		
Frequency Range		4.5		3000	MHz
Insertion Loss*	2000-3000		3		
	1000-2000		2		dB
	4.5-1000		1		
Phase Unbalance	4.5-1000		2		Deg.
	1000-2000		3		
Amplitude Unbalance	4.5-1000		0.5		dB
	1000-2000		0.5		

^{*}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.

TC1-1-13MG2+

Generic photo used for illustration purposes only CASE STYLE: AT224-3

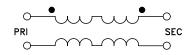
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost				
Reel Size	Devices/Reel			
7"	20, 50, 100, 200, 500			
13"	1000, 2000			

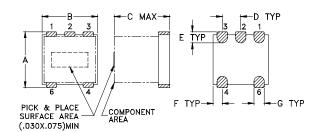
Pin Connections

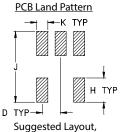
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2

Config. G



Outline Drawing





Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	С	В	Α
.025	.030	.050	.150	.150	.150
0.64	0.76	1.27	3.81	3.81	3.81
wt		K	J	Н	G
grams		.030	.190	.065	.028
0 10		0.76	4 83	1 65	0.71

Typical Performance Data

INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.18	31.52	0.69	3.81
0.18	34.60	0.56	1.78
0.19	33.50	0.56	0.11
0.24	29.68	0.55	0.19
0.46	19.52	0.45	0.81
0.68	16.22	0.14	1.59
0.90	15.89	0.29	0.89
1.11	16.97	0.71	1.28
1.62	12.88	0.78	5.79
3.02	6.79	0.49	12.32
	0.18 0.18 0.19 0.24 0.46 0.68 0.90 1.11 1.62	LOSS (dB) 0.18 0.18 0.18 0.19 0.19 0.24 0.24 0.46 0.46 0.46 0.49 0.90 15.89 1.11 16.97 1.62 12.88	LOSS (dB) 0.18 31.52 0.69 0.18 34.60 0.56 0.19 33.50 0.24 29.68 0.46 19.52 0.45 0.68 16.22 0.14 0.90 15.89 0.29 1.11 16.97 0.71 1.62 12.88 UNBALANCE (dB)





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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