

Engineering Development Model

RF Transformer

TC4-ED11609/1

Impedance Ratio : 4

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : AT224

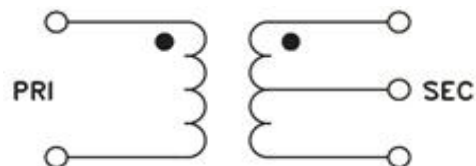
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		1		800	MHz
Insertion Loss *	3 dB Bandwidth		0.5 - 800		MHz
	2 dB Bandwidth		5 - 400		MHz
	1 dB Bandwidth		10 - 100		MHz
Amplitude Unbalance	over 3dB Bandwidth		0.5		dB
	over 1dB Bandwidth		0.1		dB
Phase Unbalance	over 3dB Bandwidth		5.0		deg.
	over 1dB Bandwidth		1.00		deg.

Note:

* Insertion Loss is referenced to mid-band loss, 0.75dB typ.

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

Configuration : A

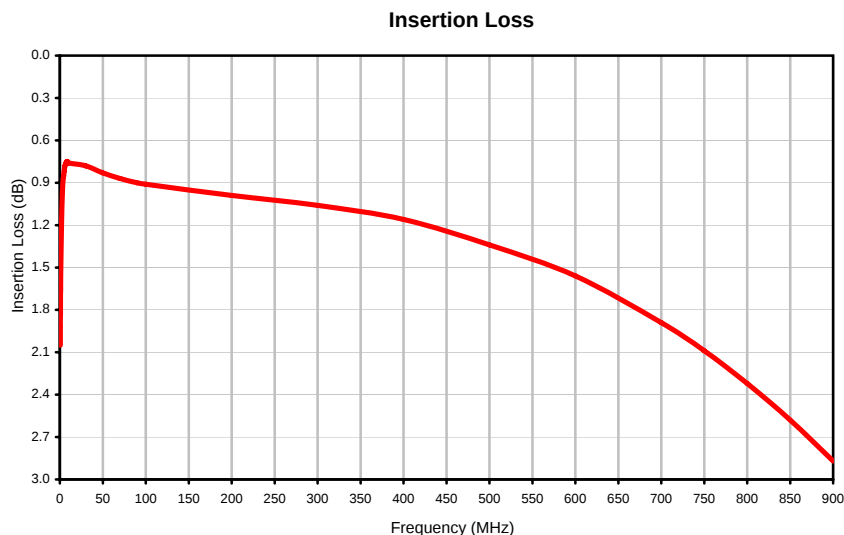


PIN CONNECTIONS	
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

Typical Performance Data

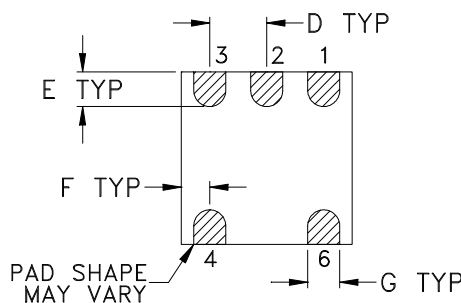
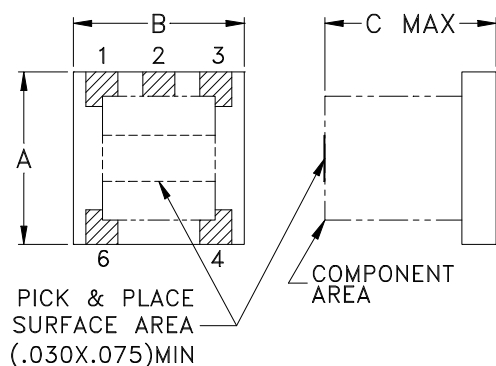
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.50	2.05	9.69
0.60	1.92	10.50
0.70	1.81	11.16
0.80	1.73	11.69
0.90	1.66	12.16
1.00	1.59	12.57
2.00	1.17	15.46
3.00	0.97	17.38
4.00	0.87	18.76
4.40	0.85	19.20
5.00	0.82	19.76
6.00	0.78	20.50
7.00	0.76	21.04
8.00	0.75	21.43
9.00	0.75	21.72
10.00	0.76	21.95
30.00	0.78	22.25
50.00	0.83	21.82
70.00	0.87	21.52
90.00	0.90	21.27
100.00	0.91	21.14
200.00	0.99	19.77
300.00	1.06	18.03
400.00	1.16	16.08
500.00	1.34	14.15
600.00	1.56	12.23
700.00	1.89	10.58
750.00	2.09	9.84
800.00	2.32	9.17
850.00	2.58	8.56
900.00	2.87	8.02

Typical Performance Curves

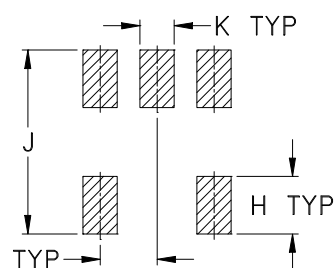


Outline Dimensions

AT224



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
AT224	.150 (3.81)	.150 (3.81)	.150 (3.81)	.050 (1.27)	.030 (0.76)	.025 (0.64)	.028 (0.71)	.065 (1.65)	.190 (4.83)	.030 (0.76)	-- --	.10

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

- Open style, ceramic base.
- Termination finish:
For RoHS Case Styles: 2-10 μ inch (.05-.25 microns) Gold over 100-300 μ inch (2.54-7.62 microns) Nickel plate.
All models, (+) suffix.
For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

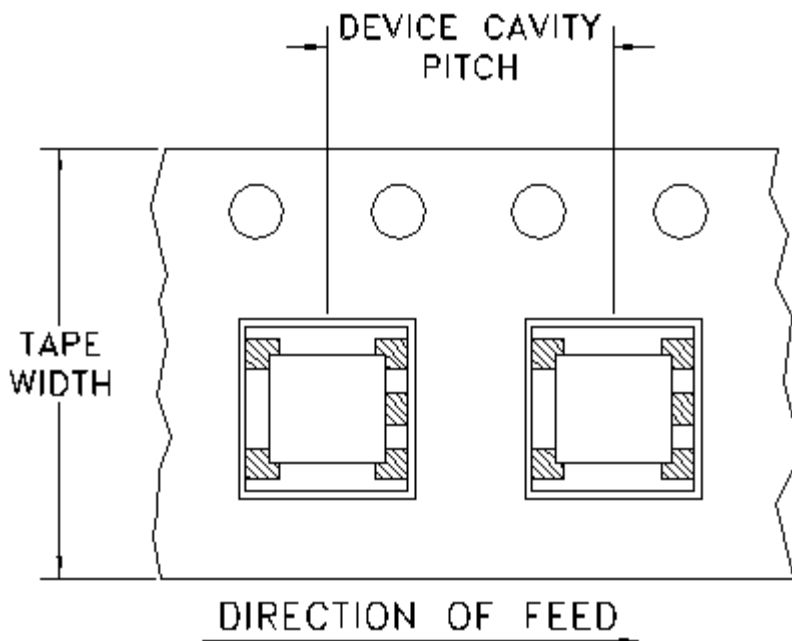


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F17

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
12	8	7	Small quantity standards (see note)	20
				50
				100
				200
				500
		13	Standard	1000
				2000

Note: Please Consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



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