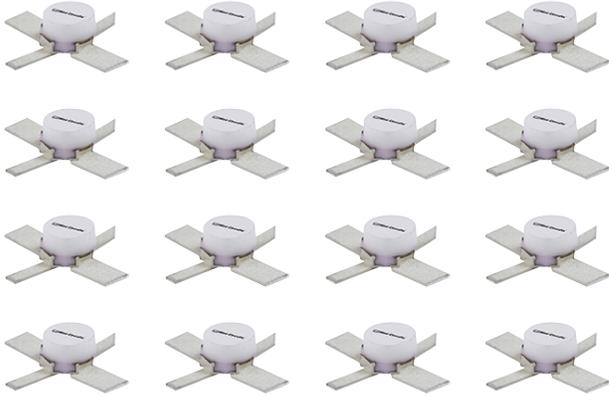




DESIGNER'S KIT K1-PAT+

Fixed Attenuators

50Ω DC to 7GHz



FEATURES

- Wideband, 50Ω
- 3, 6, 10, 15, 20dB attenuation
- Input power 1W max.
- Excellent VSWR
- Miniature ceramic case
- Aqueous washable
- Low cost

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



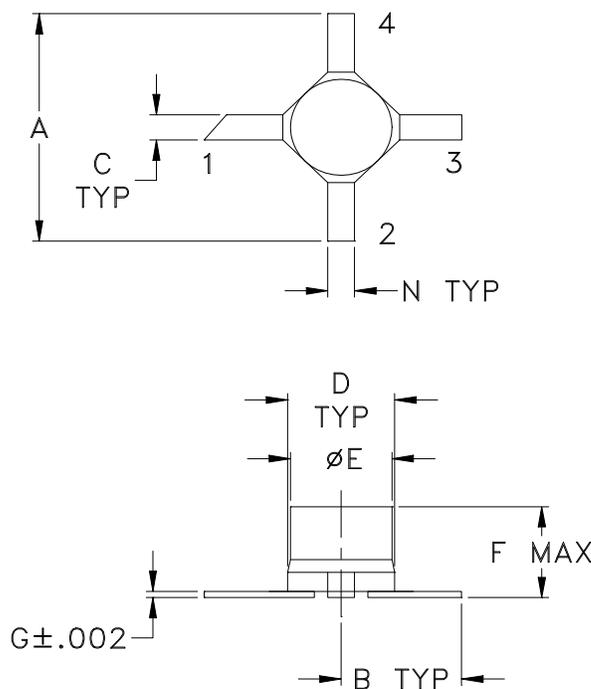
K1-PAT+ ELECTRICAL SPECIFICATIONS

(5 models, 4 of each, 20 total)

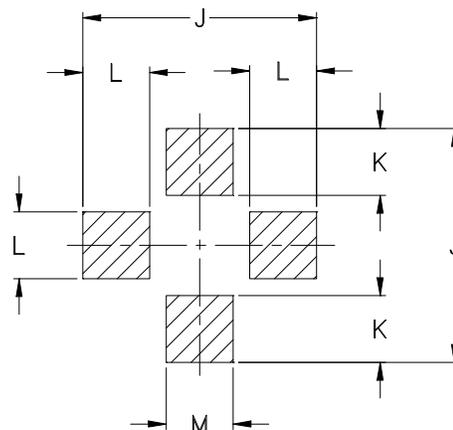
Model	Frequency (GHz) f_L - f_U	Attenuation (dB)				VSWR (:1) Max.			Input Power ¹ (W) Max.
		Nom.	Flatness Max.			DC-1 GHz	DC-2.5 GHz	DC-7 GHz	
			DC-1 GHz	DC-2.5 GHz	DC-7 GHz				
PAT-3+	DC-7	3±0.3	0.3	0.5	0.9	1.2	1.3	1.4	1
PAT-6+	DC-7	6±0.3	0.3	0.5	1.1	1.2	1.3	1.4	1
PAT-10+	DC-7	10±0.4	0.4	0.6	1.7	1.3	1.4	1.5	1
PAT-15+	DC-7	15±0.6	0.5	0.7	2.4	1.3	1.4	1.5	1
PAT-20+	DC-7	20±1.3	0.5	0.7	2.6	1.4	1.4	1.5	1

1. RF power at 25°C case temperature: 1W. Derate linearly to 0.1W at 100°C.

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	WT. GRAM
AF320	.200 (5.08)	.100 (2.54)	.020 (0.51)	.070 (1.78)	.068 (1.73)	.057 (1.45)	.005 (0.13)	-	.230 (5.84)	.065 (1.65)	.060 (1.52)	.080 (2.03)	.040 (1.02)	.04

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$

Notes:

- Case material: Ceramic.
- Termination material:
Nickel-Iron alloy 42.
- Termination finish:
For RoHS Case Styles: Tin-Silver alloy plate over Nickel barrier or Matte-Tin. (See Data Sheet)
For RoHS-5 Case Styles: Tin-Lead plate.
- Termination (1):
May have diagonal cut. Input and output interchangeable for PAT models only.
- Special Tolerances: Termination width $\pm .005$ inch, termination thickness $\pm .002$ inch, cap diameter $\pm .005$ inch.



INTERNET <http://www.minicircuits.com>

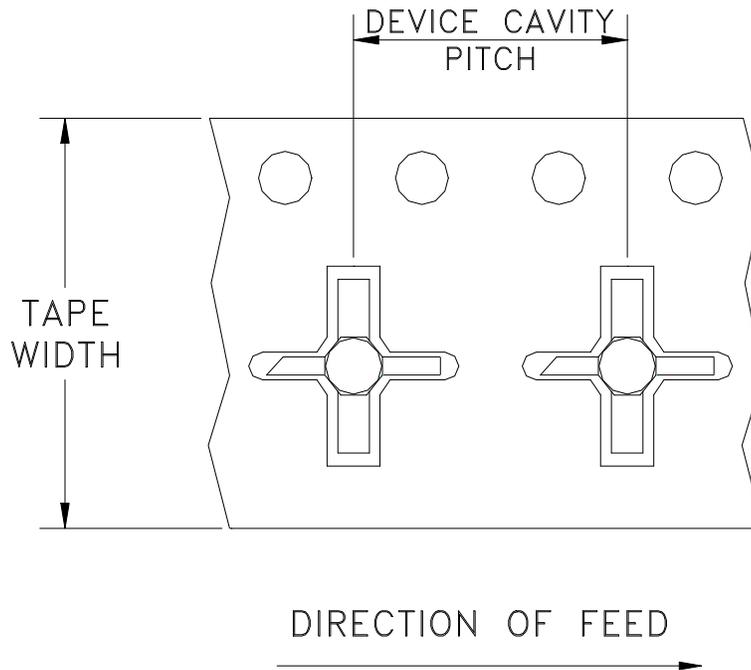
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Mini-Circuits ISO 9001 & ISO 14001 Certified

Tape & Reel Packaging TR-F26

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
12	8	7	1000

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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