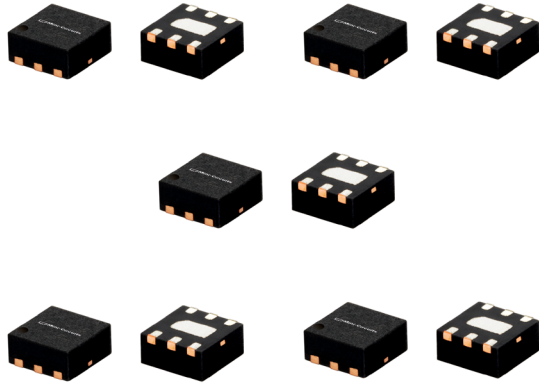




DESIGNER'S KIT K2-KAT+

Fixed Attenuators

50Ω DC to 43.5GHz



FEATURES

- 2x2mm QFN Package
- Power Handling up to 2W
- Outstanding Accuracy and Flatness

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



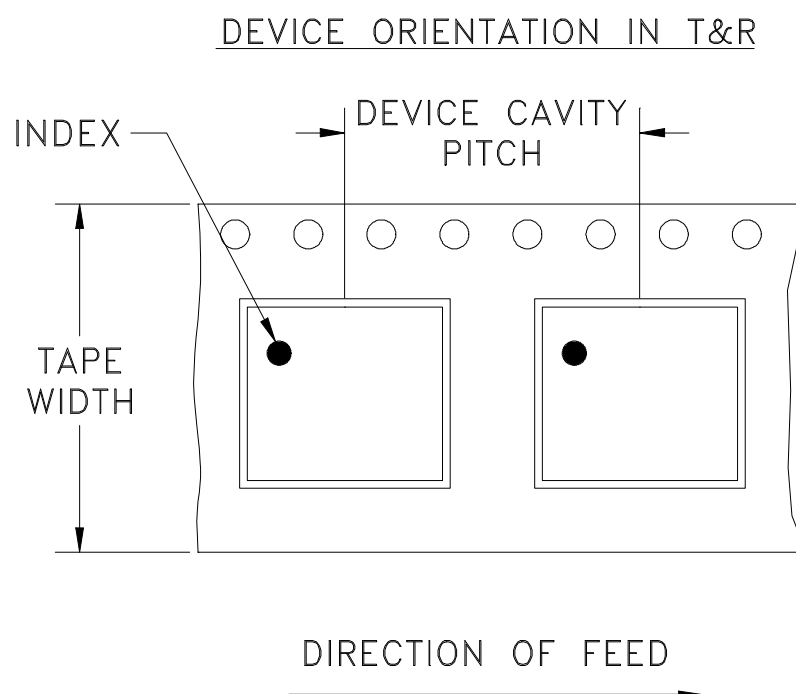
K2-KAT+ ELECTRICAL SPECIFICATIONS

(15 models, 5 of each, 75pcs. total)

Model	Frequency (GHz) f_L - f_U	Attenuation (dB) Typ.				VSWR (:1) Typ.				Input Power ¹ (W) Max.
		10 GHz	20 GHz	30 GHz	43.5 GHz	10 GHz	20 GHz	30 GHz	43.5 GHz	
KAT-0+	DC - 43.5	0.03	0.17	0.39	0.65	1.08	1.3	1.54	1.71	2
KAT-1+	DC - 43.5	0.9	1	1.1	1	1.11	1.18	1.29	2.06	2
KAT-2+	DC - 43.5	2	2	2.2	1.6	1.1	1.19	1.38	1.71	2
KAT-3+	DC - 43.5	2.9	3	3.2	2.8	1.15	1.2	1.35	1.62	2
KAT-4+	DC - 43.5	3.9	3.9	4	3.4	1.12	1.21	1.35	1.75	1.7
KAT-5+	DC - 43.5	4.9	4.9	5	5.1	1.11	1.13	1.29	1.59	1.4
KAT-6+	DC - 43.5	6	6	6.1	5.9	1.08	1.11	1.26	1.44	1.6
KAT-7+	DC - 43.5	7	7	7.1	7	1.07	1.14	1.31	1.69	1.3
KAT-8+	DC - 43.5	8	8	8.2	8.6	1.09	1.12	1.3	1.52	1.2
KAT-9+	DC - 43.5	8.9	8.9	9.1	8.8	1.09	1.11	1.26	1.6	1.1
KAT-10+	DC - 43.5	9.9	9.9	10	9.9	1.09	1.11	1.3	1.5	1.7
KAT-12+	DC - 43.5	12	12.1	12.2	12.3	1.06	1.16	1.31	1.41	1.1
KAT-15+	DC - 43.5	15	15	15.1	14.6	1.11	1.13	1.33	1.57	1.4
KAT-20+	DC - 43.5	20	20	19.9	19.4	1.09	1.1	1.3	1.32	0.8
KAT-30+	DC - 43.5	30	30.2	30.1	31.8	1.13	1.13	1.36	1.59	1

1. RF Power at 25°C case temperature. Check Individual

Tape & Reel Packaging TR-F108



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
12	4	7	Small quantity standards	20
				50
				100
				200
				500
				1000
		7	Standard	2000
				3000

Note: Please Consult individual 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



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

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C or -45° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C or -65° to 150° Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Mechanical Shock	1.5Kg, 0.5 ms, 5 shock pulses, Y1 direction only	MIL-STD-883, Method 2002, Condition B, except Y1 direction only
Vibration (Variable Frequency)	50g peak	MIL-STD-883, Method 2007, Condition B
Autoclave	15 psig, 100% RH, 121°C, 96 hours	JESD22-A102, Condition C
HAST	130°C, 85% RH, 96 hours	JESD22-A110
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Solder Reflow Heat	Sn-Pb Eutetic Process: 240°C peak Pb-Free Process: 260°C peak	J-STD-020, Table 4-1, 4-2 and 5-2; Figure 5-1
Moisture Sensitivity: Level 1	Bake at 125°C for 24 hours Soak at 85°C/85% RH for 168 hours, Reflow 3 cycles at 260°C peak	J-STD-020
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether +	MIL-STD-202, Method 215



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
	monoethanolamine at 63°C to 70°C	