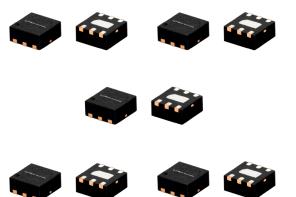


DESIGNER'S KIT K2-KAT+ Fixed Attenuators

50Ω DC to 43.5GHz



FEATURES

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







K2-KAT+ ELECTRICAL SPECIFICATIONS

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

	Frequency (GHz)		Attenuatio	Attenuation (dB) Typ.			VSWR (:1) Typ.				
Model	Model f _L -f _U		20 GHz	30 GHz	43.5 GHz	10 GHz	20 GHz	30 GHz	43.5 GHz	Power ¹ (W) Max.	
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

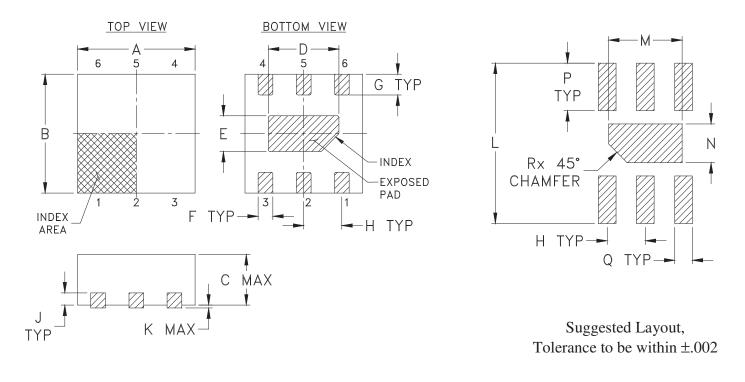


Case Style

MC1630

Outline Dimensions

PCB Land Pattern



	CASE #.	А	В	С	D	Е	F	G	Н	J	Κ	L	М	Ν	Р
ſ	MC1630	.079 (2.00)	.079 (2.00)	.031 (.80)	.047 (1.20)	.024 (.60)	.010 (.25)	.014 (.35)	.026 (.65)	.008 (.20)	.002 (.05)	.106 (2.70)	.049 (1.25)	.026 (.65)	.031 (.80)

CASE #.	Q	R	WT, GRAM
MC1630	.012 (.30)	.012 (.30)	.006

Dimensions are in inches (mm). Tolerances: 2 Pl. <u>+</u>.01; 3 Pl. <u>+</u>.005

Notes:

- 1. Case material: Plastic.
- 2. Termination finish:

For RoHS Case Styles: Matte Tin plate. All models, (+) suffix.

3. Lead #1 identifier shall be located in the cross-hatched area shown. Identifier may be either a molded or marked feature.





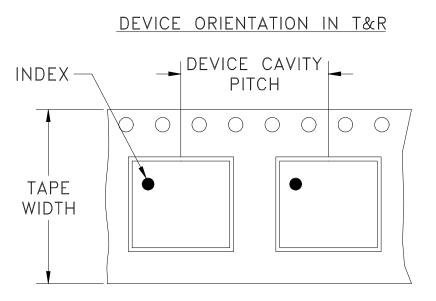
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



RF/IF MICROWAVE COMPONENTS

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Tape & Reel Packaging TR-F108



DIRECTION OF FEED

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



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Mini-Circuits

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 or -55° to 105° C or -40° to 105° C or -40° to 95° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C or -65° to 150° Ambient Environment	Individual Model Data Sheet
HTOL	1000 hours at 125°C	MIL-STD-883, Method 1005, Condition B
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
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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					
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215			
ENV08T1 Rev: D 12/16/24 DCO-1621 File This document and its contents are the property of Mini-C		Page: 2			