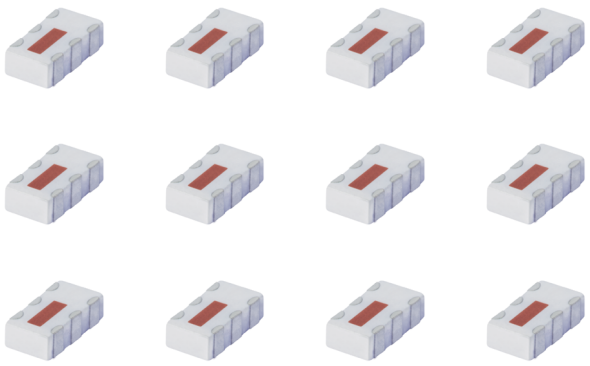
DESIGNER'S KIT K1-QCN+

2WAY-90° Power Splitter/Combiners

50Ω 220 to 4500 MHz



FEATURES

- Wideband, 50Ω,
- Low insertion loss, 0.4 dB typical
- High isolation up to 32 dB typical
- Wrap-around terminals for excellent solderability
- Ultra small ceramic cases,
  (L) 0.12" x (W) 0.60" x (H) 0.35"

MINI-CIRCUITS DESIGNER'S KITS SPEED UP THE SOLUTION

RoHS COMPLIANT

K1-QCN+ ELECTRICAL SPECIFICATIONS

(10 models, 2 of each, 20 total)

Model	Frequency (MHz)		Isolation (dB)		Insertion Loss (dB) Above 3.0dB		Phase Unbalance (Degrees)	Amplitude Unbalance (dB)	Input Power (W) (as a splitter)
	Low	High	Typ.	Min.	Typ.	Max.	Max.		Max.
QCN-3+	220	470	24	18	0.6	0.8	8	1.3	15
QCN-5+	330	580	20	14	0.3	0.6	8	1.3	15
QCN-7+	425	675	17	11	0.4	0.7	8	1.0	15
QCN-12+	800	1375	19	14	0.4	0.8	12	0.9	15
QCN-12A+	800	1250	17	13	0.3	0.7	5	0.8	15
QCN-19+	1100	1925	25	19	0.4	0.9	4	1.1	15
QCN-25+	1350	2450	25	18	0.4	0.9	5	1.1	15
QCN-27+	1700	2700	26	18	0.4	0.9	6	1.0	15
QCN-34+	2500	3400	32	20	0.4	0.7	4	1.2	15
QCN-45+	2500	4500	19	15	0.5	0.8	6	2.5	15

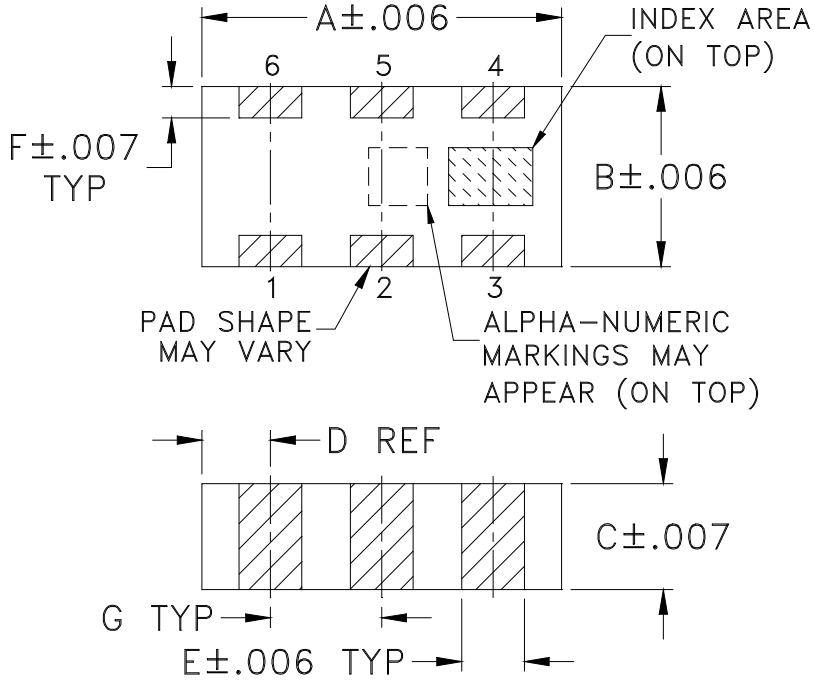
Patent Pending

REV. A
ECO-009382
M111563
K1-QCN+
210823

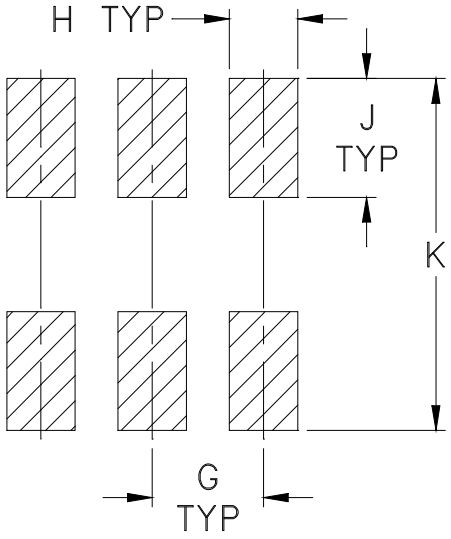
Case Style FV

FV1206-1

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT. GRAM
FV1206-1	.126 (3.20)	.063 (1.60)	.035 (0.89)	.024 (0.61)	.022 (0.56)	.011 (0.28)	.039 (0.99)	.024 (0.61)	.042 (1.07)	.123 (3.12)	-- --	-- --	-- --	-- --	.020

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

Notes:

1. Open style, ceramic base.
2. Termination finish: **as shown below or indicated on Data Sheet.**
   For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
   For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.

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Tape & Reel Packaging TR-F75

DEVICE ORIENTATION IN T&R

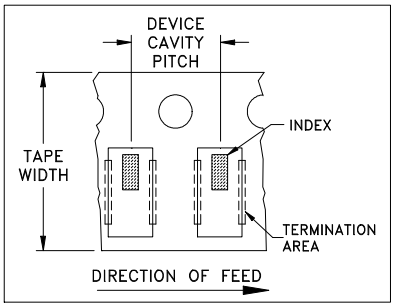

ILLUSTRATION 1

Applicable Case Styles
FV1206-1
FV1206-3

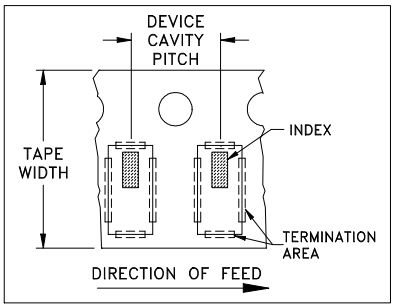

ILLUSTRATION 2

Applicable Case Styles
FV1206-4
FV1206-5
FV1206-6
FV1206-7
FV1206-9

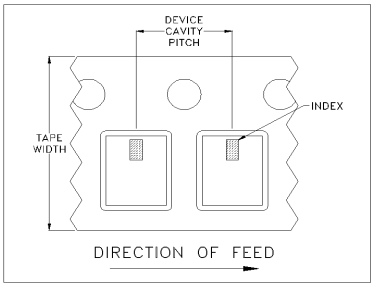

ILLUSTRATION 3

Applicable Case Styles
FV1206-11
FV1206-12
GE0805C-18
NL1008C-6
NL1008C-7
NL1008C-9
NL1008C-10
NL1008C-12

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
8	4	7	Small quantity standards (see note)	20
				50
				100
				200
				500
				1000
			Standard	3000

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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