



DESIGNER'S KIT K1-SIM+

Frequency Mixers

50Ω 750 to 1500 MHz



FEATURES

- Useable as up and down converter
- Wide bandwidth, 750 to 15000MHz
- Low conversion loss
- High L-R isolation
- Wide IF bandwidth, up to 4GHz
- Rugged LTCC construction
- Low profile, 0.08", low cost

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



K1-SIM+ ELECTRICAL SPECIFICATIONS

(8 models, 5 of each, 40 total)

Model	LO level (dBm)	Frequency MHz		Conversion Loss (dB)			RF In @ 1 dB Compr. (dBm)	IP3 (dBm)	LO-RF Isolation (dB)	LO-IF Isolation (dB)
		LO/RF	IF	Typ.	ó	Max.				
SIM-73L+	4.0	2400-7000	DC-3000	6.3	0.20	8.5	1.0	12	32	26
SIM-14+	7.0	3700-10000	DC-4000	6.3	0.20	9.5	1.0	13	36	16
SIM-43+	7.0	750-4200	DC-1500	6.3	0.20	8.6	1.0	12	37	24
SIM-83+	7.0	2300-8000	DC-3000	6.0	0.20	8.9	1.0	15	32	28
SIM-153+	7.0	3400-15000	DC-4000	8.0	0.40	13.2	1.0	10	36	30
SIM-63LH+	10.0	750-6000	DC-1500	6.6	0.20	9.3	3.0	12	32	22
SIM-83LH+	10.0	1700-8000	DC-3000	6.0	0.20	8.4	3.0	18	31	28
SIM-153LH+	10.0	3200-15000	DC-4000	7.5	0.30	12.4	3.0	18	36	20

Protected under U.S. Patent 7,027,795

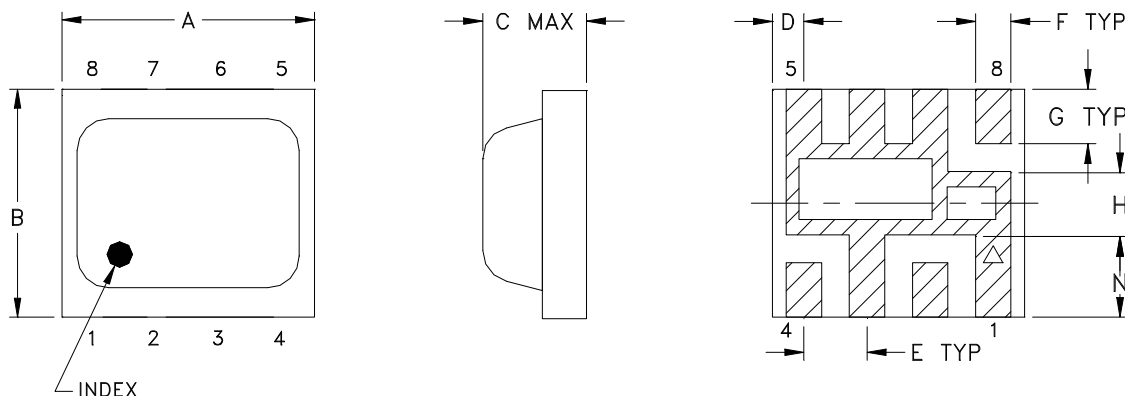


www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

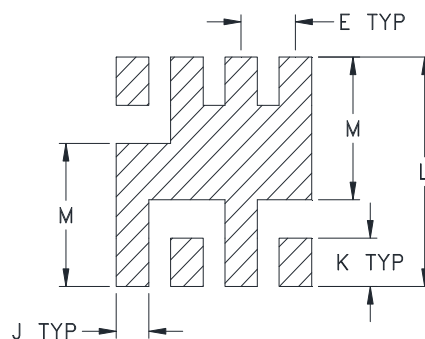
REV. A
ECO-009343
K1-SIM+
MCL NY
210820

Outline Dimensions

HV1195



PCB Metal Land Pattern



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

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
HV1195	0.200 (5.08)	0.180 (4.57)	0.087 (2.21)	0.025 (0.64)	0.050 (1.27)	0.028 (0.71)	0.043 (1.09)	0.050 (1.27)	0.030 (0.76)	0.043 (1.09)	0.204 (5.18)	0.127 (3.23)	0.065 (1.65)

CASE#	WT, GRAM
HV1195	.08

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

Notes:

1. Case material: Plastic encapsulation on Ceramic base.
2. Termination finish: Palladium Silver.



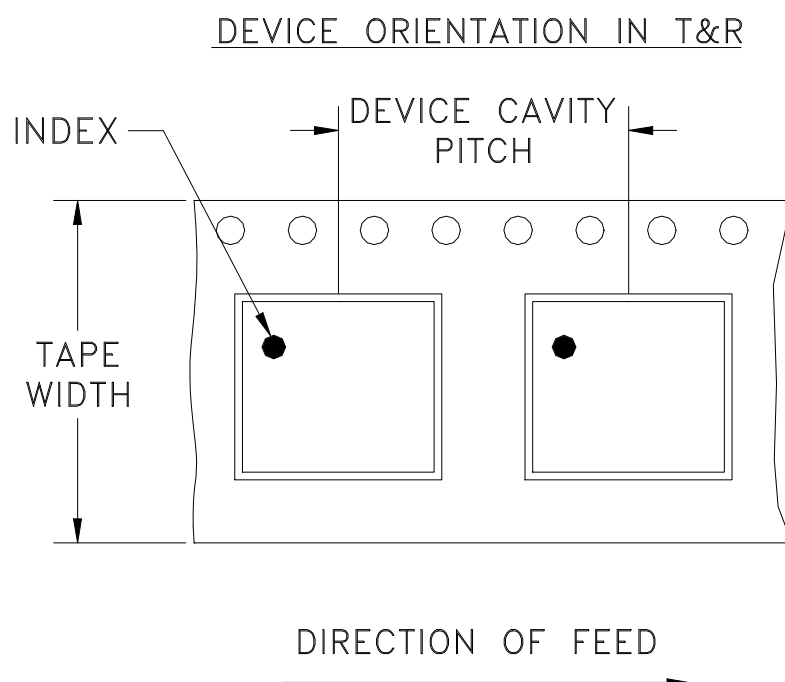
P.O. Box 350186, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F82



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
12	8	7	500

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>

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