



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



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REV. A
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