



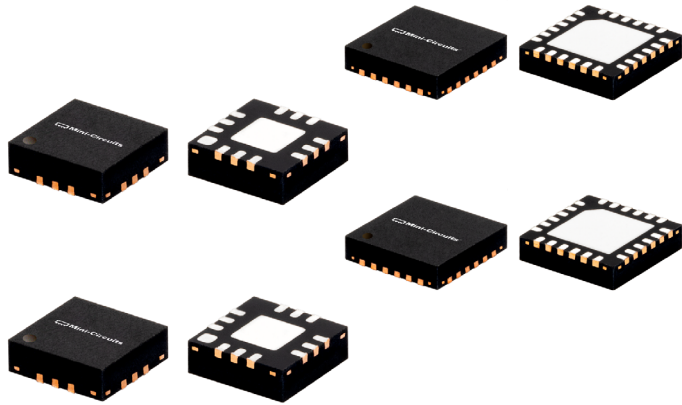
Mini-Circuits®

DESIGNER'S KIT K1-MDB+

Frequency Mixers



50Ω 2.2 to 50 GHz



FEATURES

- Double balanced, wide bandwidth
- Excellent isolation, 35-40 dB typ (LO-RF) and 31-46 dB typ (LO-IF) around mid-band
- Variety of operating frequency ranges
- Low conversion loss, 8 dB typ up to 30 GHz
- Usable as up & down converter
- Small sizes, 3 x 3 x 0.9 mm or 4 x 4 x 1 mm

 MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
 THE SOLUTION


K1-MDB+ ELECTRICAL SPECIFICATIONS

(4 models, 5 of each, 20 total)

Model ¹	LO level (dBm)	Frequency (GHz)		Conversion Loss (dB)	LO-RF Isolation (dB)	LO-IF Isolation (dB)	Pin @ 1 dB Compr. (dBm)	IIP3 (dBm)
	Typ.	LO/RF	IF	Typ.	Typ.	Typ.	Typ.	Typ.
MDB-24H+	15	5.0-21.5	DC-5	7.9 @ 15 GHz	35 @ 15 GHz	44 @ 15 GHz	10	23 @ 15 GHz
MDB-44H+	15	10-40	DC-15	8.4 @ 20-30 GHz	37 @ 20-30 GHz	37 @ 20-30 GHz	10	20 @ 10-20 GHz
MDB-54H+	15	20-50	DC-20	12.6 @ 40 GHz	40 @ 40 GHz	31 @ 40 GHz	10	20 @ 20-50 GHz
MDB-73H+	15	2.2-7.0	DC-1.6	8.2 @ 4 GHz	39 @ 4 GHz	46 @ 4 GHz	10	24 @ 4 GHz

1. See individual product datasheets for more details

 REV.0R
 ECO-008246
 K1-MDB+
 MCL NY
 210615

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