



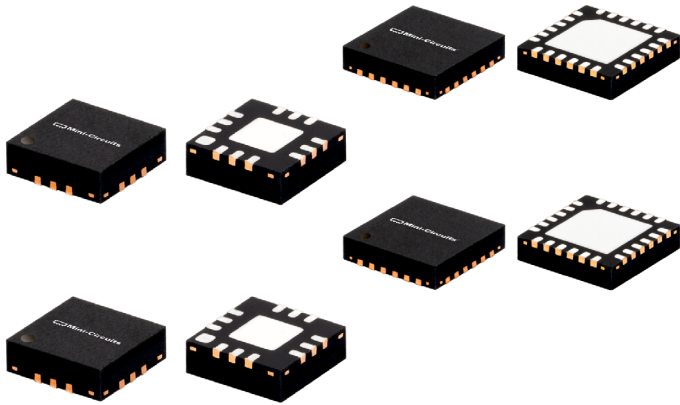
Mini-Circuits

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 <sup>1</sup>	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.		
<a href="#">MDB-24H+</a>	15	5.0-21.5	DC-5	7.9 @ 15 GHz	35 @ 15 GHz	44 @ 15 GHz	10	23 @ 15 GHz
<a href="#">MDB-44H+</a>	15	10-40	DC-15	8.4 @ 20-30 GHz	37 @ 20-30 GHz	37 @ 20-30 GHz	10	20 @ 10-20 GHz
<a href="#">MDB-54H+</a>	15	20-50	DC-20	12.6 @ 40 GHz	40 @ 40 GHz	31 @ 40 GHz	10	20 @ 20-50 GHz
<a href="#">MDB-73H+</a>	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

