

IQ Mixers
IQ SERIES
2.0 to 13.0 GHz

FEATURES

- > Octave Bandwidth
- > Broad IF Frequency Response: DC - 500 MHz
- > Excellent Image Rejection: 28 dB Typ.
- > High Port-to-Port Isolations

Max. Input Power: +23 dBm @ +25°C
 Operating Temperature Range: -55°C to +125°C
 Storage Temperature Range: -65°C to +150°C
 Specification @ +25°C

Model No.	RF/LO Frequency GHz	LO Power dBm Nom.	Conversion Loss ¹ dB Typ./Max	Image Rejection ¹ dB Typ./Min.	L-R Isolation dB Typ./Min.	L-I/Q Isolation dB Typ./Min.	Amplitude Match dB Typ.	Phase Match Deg. Typ.	Package Style
IQ2040M	2.0 - 4.0	+10	5.5/7.0	28/19	40/30	30/25	0.2	2.0	F4, P4
IQ2040N	2.0 - 4.0	+13	5.5/7.0	28/19	40/30	30/25	0.2	2.0	F4, P4
IQ2040H	2.0 - 4.0	+17	5.5/7.0	28/19	40/30	30/25	0.2	2.0	F4, P4
IQ3060M	3.0 - 6.0	+10	6.0/8.0	28/19	30/25	28/20	0.2	2.5	F2, P2
IQ3060N	3.0 - 6.0	+13	6.0/8.0	28/19	30/25	28/20	0.2	2.5	F2, P2
IQ3060H	3.0 - 6.0	+17	6.0/8.0	28/19	30/25	28/20	0.2	2.5	F2, P2
IQ4080M	4.0 - 8.0	+10	5.5/7.5	28/19	30/25	30/22	0.15	3.0	F2, P2
IQ4080N	4.0 - 8.0	+13	5.5/7.5	28/19	30/25	30/22	0.15	3.0	F2, P2
IQ4080H	4.0 - 8.0	+17	5.5/7.5	28/19	30/25	30/22	0.15	3.0	F2, P2
IQ7013M	7.0 - 13.0	+10	5.5/7.0	28/20	30/25	35/28	0.2	5.0	F2, P2
IQ7013N	7.0 - 13.0	+13	5.5/7.0	28/20	30/25	35/28	0.2	5.0	F2, P2
IQ7013H	7.0 - 13.0	+17	5.5/7.0	28/20	30/25	35/28	0.2	5.0	F2, P2

1. Conversion Loss and Image Rejection are tested with an external 90° hybrid connected to the I/Q ports at 70 MHz.
 2. To indicate package style, add prefix to the end of the model number. (Example: Model No. IQ6090MF2 - Package "F2")
 3. Custom operating frequency bands and power levels are available upon request.