

MIXER BUILDING BLOCKS



Specify Mixer Block Number and LO Level Drive Code
Example: M0208/M

BLOCK NUMBER ¹	RF/LO	IF	CONVERSION LOSS ² (dB, Typ.)	PORT-TO-PORT ISOLATION (dB, Typ.)			RETURN LOSS (dB, Typ.)		
	FREQUENCY RANGE (GHz, Min.)	FREQUENCY RANGE (GHz)		LO/RF	LO/IF	RF/IF	RF	LO	IF
OCTAVE									
M0102	1-2	DC-0.5	6.5	20	20	15	4	6	5
M0204	2-4	DC-1	5.5	25	20	20	6	10	6
M0408	4-8	DC-2	5.5	20	20	20	6	10	6
M0812	8-12.5	DC-3	5.5	25	20	20	6	10	6
M1218	12-18.5	DC-3	6.5	20	20	15	6	6	6
MULTIOCTAVE									
MRF	0.1-1.5	0.01-0.5	7.5	20	20	20	-	-	-
M0104	1-4	DC-0.5	5.5	30	15	20	5	5	6
M0208	2-8	DC-1	6.5	20	20	15	4	6	6
M0310	3-10	DC-1.5	6	20	15	15	6	8	6
M0415	4-15	DC-2	7	20	15	15	6	6	6
M0218	2-18	DC-0.5	7.5	20	20	15	4	4	6
M0719	7-19	DC-3	6.5	20	20	15	6	6	6
M0220	2-20	DC-0.5	8	20	20	15	4	4	6
LOW 1/f NOISE									
M0614F ³	6-14	DC-3	7	20	20	20	6	5	6

Notes:

1. A suffix must be added to the model number when ordering optional LO drive levels. However, it is not necessary to include the LO level drive code when ordering a standard unit without options.

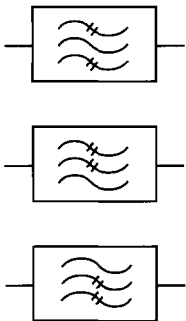
LO Levels	Suffix	LO Range (dBm)	Output 1 dB C.P. (dBm, Typ.)	Third-Order Intercept (dBm, Typ.)	
				Output	Input
Standard	M	+8 to +13	-1	6	12
Optional	J	+5 to +10	-6	1	7
	H	+12 to +17	2	9	15
	V	+17 to +23	7	14	20
	U	+20 to +26	11	18	24

2. Parameters are measured at 100 MHz IF frequency and at +10 dBm nominal LO level.

3. Typical corner frequency of 100 kHz. Lower noise available.

FILTER BUILDING BLOCKS

Specify Filter Block Number
Example: LPF/500/2 (500 MHz Lowpass Filter, n=2)



BLOCK NUMBER						
BPF	/	Center frequency	/	Bandwidth	/	Order
LPF	/	3 dB cutoff frequency	/	Order		
HPF	/	3 dB cutoff frequency	/	Order		

Notes: 1. All frequencies are noted in MHz.
2. Maximum filter order:
Single-amplifier applications: n = 3 for LPF/HPF, n = 2 for BPF.
Dual-amplifier applications: n = 2 for LPF/HPF, BPF not available.