

Applications:

- Microwave & Millimeter Single Side-band Up/down conversion
- Instrumentations
- Test Bench

Features:

- Low Conversion Loss
- Various Bandwidth Coverage
- High Image Rejection
- Waveguide & Coaxial Connectors



Descriptions:

3J Microwave, Inc. offers a complete line of image rejection mixers in 8 waveguide bands from K to W. The available state-of-the-art solid-state technologies, devices, advanced image rejection techniques are utilized in the mixers. The unique image rejection & filtering structures ensure high rejections achieved. Waveguide LO and RF connectors are designed to cover eight waveguide bands from K to W-Band in the frequency range of 18 to

110 GHz. Coaxial connectors are available in the frequency range below 67 GHz. IF ports are SMA or 2.9 coaxial connectors depending on the IF frequencies. The series image rejection mixers are designed for various applications such as single side-band up/down conversion, transceivers, bench test, & instrumentations etc. The series image rejection mixers are sorted in category of **SSBMX** series waveguide image rejection mixers.

SSBMX Series Image Rejection Mixer Specifications:

Model Number***	RF/LO Freq (GHz)	RF/LO BW (GHz)	IF Freq* (GHz)	C. L.** (dB)	Image Rejection (dB)	Input P1dB (dBm)	RF/LO Connector
SSBMX-xxxxxxxxxxxx-00	18-27	2-9	0-9	6.0	20	+5	UG595-U
	22-33	2-11	0-11	6.5		+5	UG595-UM
	26-40	3-14	0-14	6.5		+5	UG599-U
	33-50	3-17	0-17	7.0		+5	UG383-U
	40-60	3-20	0-20	7.5		+3	UG383-UM
	50-75	5-25	0-25	8.5		+3	UG385-U
	60-90	5-30	0-30	8.5		0	UG387-U
	75-110	5-35	0-35	9.0		0	UG387-UM

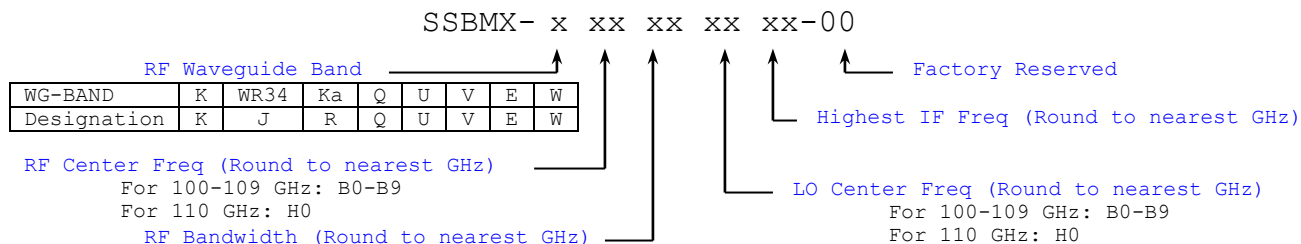
- * IF Frequency may be chosen in the posted range
- ** Tested at RF power of -20 dBm and LO power of +13 dBm
- *** Please see "how to order" for the model number details



Section 2-7: Image Rejection Mixer Series

www.3jmicrowave.com Frequency Coverage: 18 to 110 GHz

How to Order:



SSBMX Model Number Example:

Model Number of a W-Band Waveguide Image Rejection Mixer:

Specifications	Model number
RF Frequency: 100 ± 10 GHz LO Frequency: 84 GHz IF Frequency: 6 to 26 GHz Conversion Lose: 9.0 dB Image Rejection: > 20 dB	SSBMX-WB0208426-00

Outline:

Consult the Factory