Description

Mi-Wave's 920 Series Harmonic Mixers are used to downconvert millimeter wave signals using a Schottky barrier mixer diode. Measurements can be made by mixing the harmonic of the LO with the desired RF signal and observing the resulting IF.

- *Full Waveguide Band Coverage*
- *Extends the Useful Frequency Range of Spectrum Analyzers*

The 920 Series is designed for applications where a Diplexer is not required

922 Series include optional LO-IF frequency diplexer.

Operating Specifications	
RF Input Power	+15 dBm, Max.
LO Input Power	+15dBM, Max./ 6dBm typical
Storage Temperature	-10 C to +60 C
Operating Temperature	0 C to +50 C
Bias Requirements: (optional) Diode	-0.7 Vdc @ 5 mA

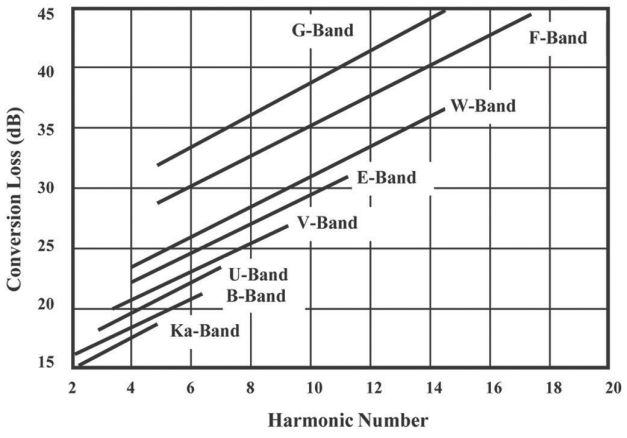
* IF range not to exceed +20dbm

Technical Specifications (typical)

Standard Mixer	Frequency Band (GHz)	Waveguide	Flange	LO Band	SSB Conversion Loss (dB)
				↑	
920A	26.5–40.0	WR-28	UG-599		18
920B	33.0–50.0	WR-22	UG-383		20
920U	40.0–60.0	WR-19	UG-383M		22
920V	50.0–75.0	WR-15	UG-385	8.0–12.0 GHZ	24
920E	60.0–90.0	WR-12	UG-387	↓	27
920W	75.0–110.0	WR-10	UG-387M		30
920F	90.0–140.0	WR-8	UG-387M		40

920 D, G available

Nominal Conversion vs. Harmonic Number and RF Band



Ordering Information

920 ___ / ___ / ___ (Without Diplexer)

IF Band Designator
02: 10-110 MHz
05: 100-600 MHz
09: 100-1000 MHz
10: 1000-2000 MHz

LO Band Designator
S: 2-4 GHz
C: 4-8 GHz
X: 8-12 GHz
Ku: 12-18 GHz

Specify RF Frequency Designator
(A, B, U, V, E, W, F)

922 ___ With Optional Diplexer

Optional IF amplifiers are available. Please consult mwave.