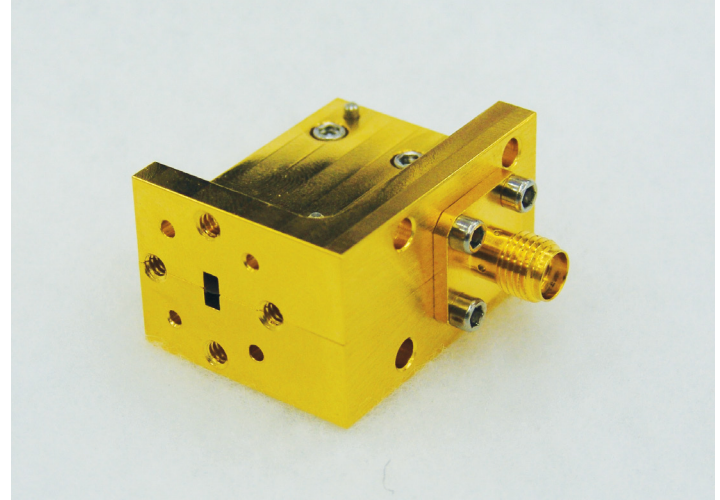


## Description

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.



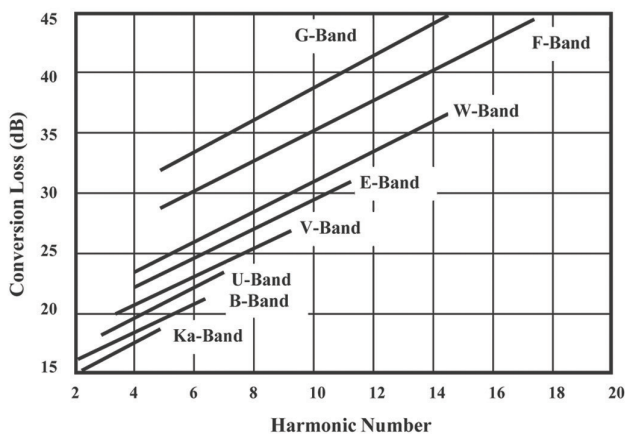
Operating Specifications	
RF Input Power	+15 dBm, Max.
LO Input Power	+15dBm, Max./ 6dBm typical
Storage Temperature	-10 C to +60 C
Operating Temperature	0 C to +50 C
Bias Requirements: (optional) Diode	-0.7 Vdc @ 5 mA

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	8.0–12.0 GHz	22
920V	50.0–75.0	WR-15	UG-385		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

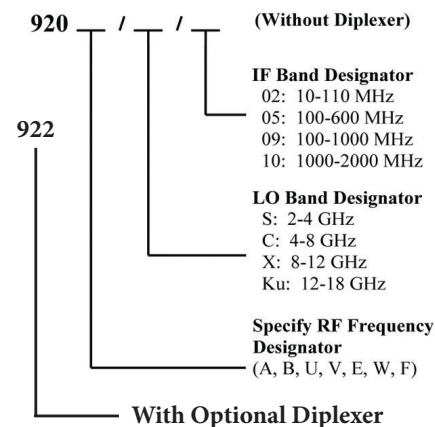
\* IF range not to exceed +20dbm

920 D, G available

## Nominal Conversion vs. Harmonic Number and RF Band



## Ordering Information



Optional IF amplifiers are available. Please consult mwave.