

920 Series Harmonic Mixers

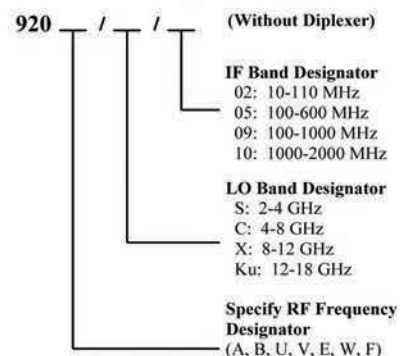
MI-WAVE
Millimeter Wave Products Inc.



Features

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

Ordering Information



Optional IF amplifiers are available. Please consult **Mi-Wave** for further information.

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.

The 920 series is designed for applications where a Diplexer is not required.

Operating Specifications

RF Input Power..... +15 dBm, Max.
LO Input Power.....+18 dBm, Max.
Storage Temperature..... -10 C to +60C
Operating Temperature..... 0C to +50C
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	↑	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

Nominal Conversion Loss vs. Harmonic Number and RF Band

