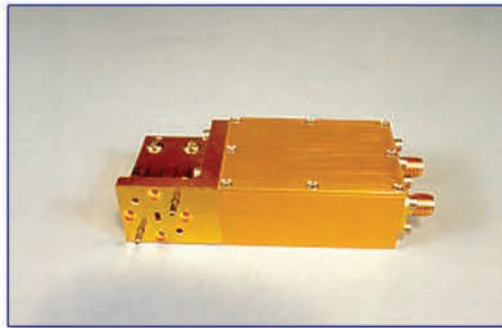


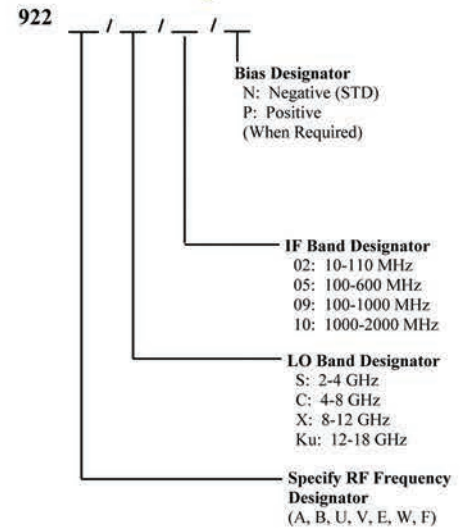
922 Series Harmonic Mixer with Diplexer



Features

- Full Waveguide Band Coverage
- Available With or Without IF Amplifier
- Extends the Useful Frequency Range of Spectrum Analyzers

Ordering Information



Description

Mi-Wave's 922 series harmonic mixers are used to downconvert millimeter wave signals using a Schottky barrier mixer diode and a Diplexer circuit to separate the local oscillator, and IF paths. Measurements can be made by mixing the harmonic of the LO with the desired RF signal and observing the resulting IF.

Designed for use with spectrum analyzers such as the HP 8566B and the HP 8569B, the 922 series harmonic mixers are used to extend the operating range of spectrum analyzers and other commercial test equipment. The mixers feature separate LO output and IF input ports with a standard triplexer circuit.

Operating Specifications

RF Input Power..... +15 dBm, Max.
 LO Input Power..... +18 dBm, Max.
 Storage Temperature..... -55 C to +125 C
 Operating Temperature..... 0C to +50 C
 Bias Requirements: (optional)
 Diode..... -0.7 Vdc @ 5 mA

Technical Specifications

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
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

