

60 GHz Phase-Locked Receiver Model HRX60.0-180

The HRX60.0-180 Phase-Locked Receiver operates at a center frequency of 60 GHz, which is the location of the oxygen absorption band where low elevation transmission losses are approximately 16 dB per kilometer. The Receiver can be used along with HXI's HTX60.0-179 Phase-Locked Transmitter for propagation studies, material characterization, as an analog communications link or even as an FMCW or pulsed radar front end.

HXI can offer variations of this receiver, with options such as a synthesizer in place of a fixed frequency local oscillator, a higher gain LNA, the addition of an antenna, etc. We can also provide similar transmitters and receivers from X-Band through 110 GHz.



RECEIVER SPECIFICATIONS

RF Input Frequency Range	59.45 – 60.50 GHz
Input Reference Frequency	10 MHz
IF Output Frequency Range	0.95 – 2.0 GHz
Noise Figure	5.2 dB typical
Gain	18 dB typical
Maximum RF Input Power	-5 dBm without damage
DC Power Requirements	+6 VDC @ 625 mA typical (LNA & LO Frequency Multiplier) +12 VDC @ 325 mA (Phase-Locked Oscillator)
RF Input	WR-15, UG-385/U
IF Output	SMA Female
Configuration	Plate Mounted

