

1) V band Receiver RV-13



Spacek Labs Model RV-13 is a full-band receiver which downconverts all of V-Band (50-75 GHz) to an IF band from 1 to 26 GHz. The LO is derived from a free-running Gunn oscillator at 49 GHz. The RF port is WR-15 and the IF port is K" F". The LO bias is +7 volts @ 1A typ. This receiver can be used to extend the frequency range of a spectrum analyzer.

2) Wideband Mixer MVU-10



Spacek Labs Model MVU-10 is a wide-band mixer with full-band coverage in both the RF and the LO ports. The RF port spans from 50 to 75 GHz in WR-15 and the LO port from 40 to 60 GHz in WR-19. Local oscillator power requirements are +2 to +5 dBm for the biased version and +10 to +14 dBm for the non-biased version. The IF output on the SMA port covers DC to 20 GHz. Conversion loss is 7 dB typical and 13 dB maximum. Lower conversion loss is available on units with reduced bandwidths. The input 1 dB compression point is typically 7 dB below the LO power level.

3) 超広帯域 Detector DW-2



Spacek Labs Model DW-2 is a full-band, 75-110 GHz detector. This detector is a very cost-effective way of measuring power in the W-band spectrum.

The RF input is WR-10 (UG387/UM) and the output is SMA (F). These detectors can be used as fast data rate receivers, with up to 3 GHz bandwidth at the 3 dB point into a 50 ohm load. Typical input sensitivity is 1500 mV/mW at -20 dBm input power. Using a 10 megohm load the sensitivity is 1500 mV/mW at -20 dBm input power. Flatness across the band is ± 2 dB with a typical tangential sensitivity of -45 dBm in a 1 MHz video bandwidth. Maximum input power is +18 dBm. This detector is available with positive (P) or negative (N) output polarity.