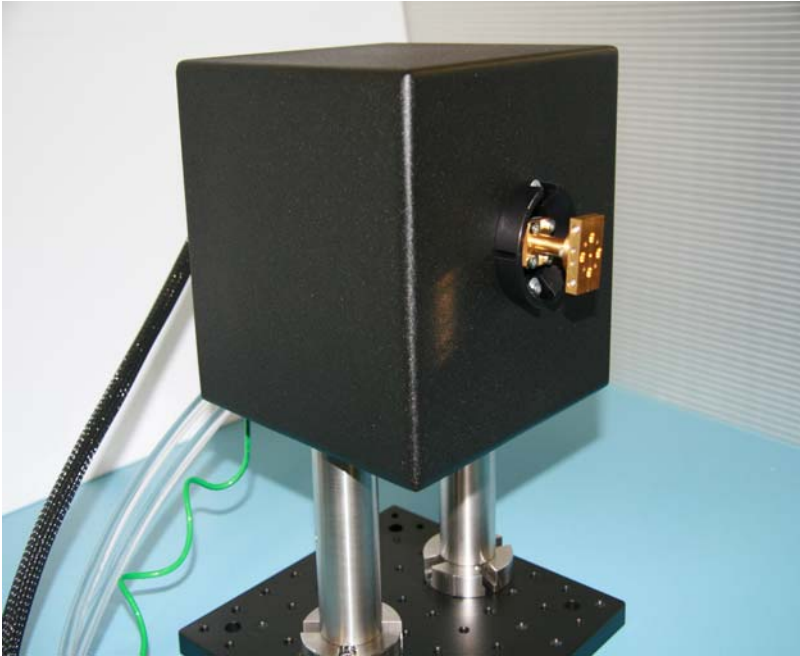


QS1-710-T Quasi-Optical Source



Frequency Range	Power Range
530-710 GHz	Up to 5 mW
1800-2100 GHz	Up to 0.025 mW

The QS1-710-T is a quasi-optical source, tunable across 530-710 GHz and 1800-2100 GHz frequency ranges. The unit is rapidly configurable for any of those ranges. This makes it an excellent choice for a broad range of research and industrial applications.

The QS1—710-T is a hybrid device composed of a QS1-710 (OV-80) backward wave oscillator (BWO), waveguide adapter and Schottky diode frequency tripler. In the baseline configuration, QS1-710 produces up to 5 mW of continuous wave tunable monochromatic power with a bandwidth of 5 MHz.

The frequency tripler attaches easily to the wave guide adapter for quick spectral range changes, converting output frequency to 1800-2100 GHz range with power up to 0.025 mW. Typical spectra of QS1-710-T are shown on the next page.

Operation of QS1-710-T requires MS-1.2 or MS-1.3 magnetic system, VR-6M high voltage power supply and a water cooling system.

