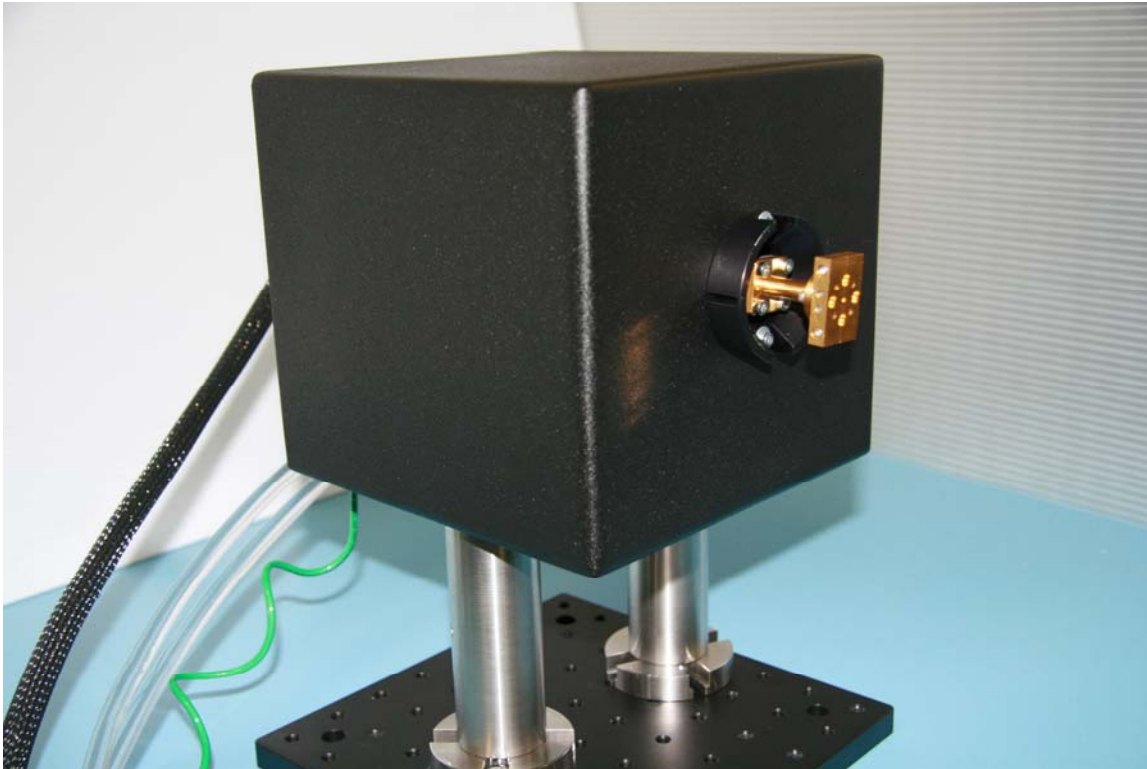


QS1-260-T Quasi-Optical Source



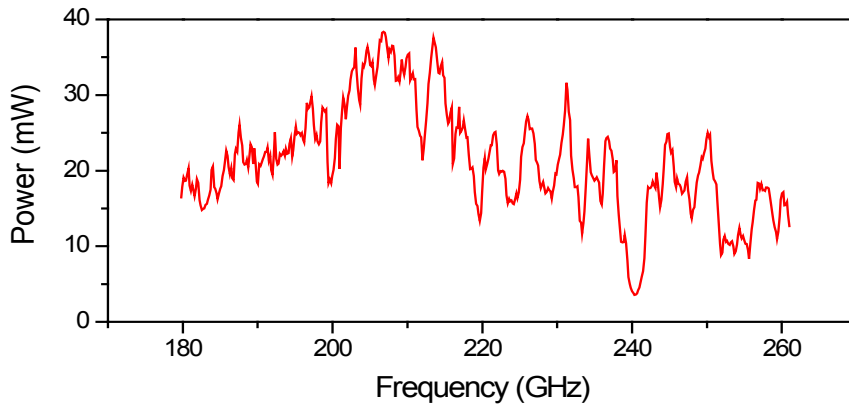
Frequency Range (GHz)	Power Range (mW)
160-260	3-30
480-780	0.1-0.3

The QS1-260-T is a quasi-optical source, tunable across 160-260 GHz and 480-780 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.

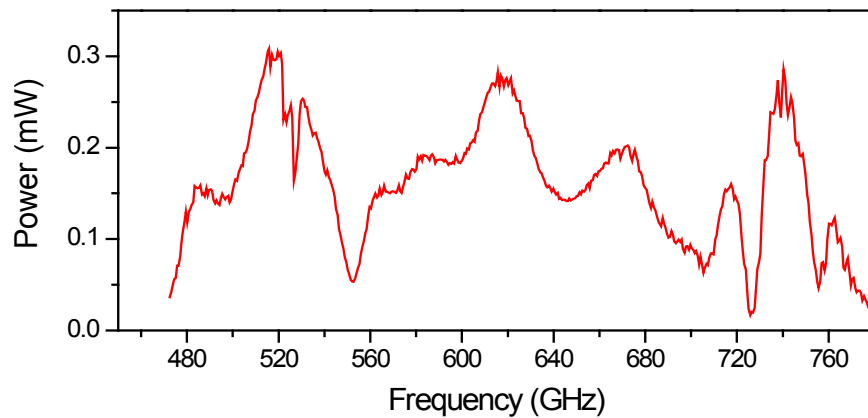
The QS1-260-T quasi-optical source is a hybrid device composed of a QS1-260 (OV-24) backward wave oscillator (BWO), waveguide adapter and a Schottky diode frequency tripler.

The QS1-260 BWO can either be pre-packaged into MS-0.6 magnetic systems or used with any other MS-X.X system offered by Microtech Instruments Inc. Operation of QS1-260 also requires a high voltage power supply such as VR-6M and a water cooling system. In the baseline configuration, QS1-260 produces up to 30 mW of continuous wave tunable monochromatic power with a bandwidth of 2 MHz. A typical output power spectrum of QS1-260 is shown in Figure 1.

Without Frequency tripler:



With Frequency tripler:



The Schottky diodes attach easily to the wave guide adapter for quick range changes. With the frequency tripler the power spectrum has a broad usable range 480-780 GHz with power up to 0.3 mW. The frequency tripled configuration has a bandwidth of 6 MHz.

For those applications that don't require high power in 480-780 GHz range, QS1-260-T offers a very attractive alternative to the more expensive and complex QS1-710, QS1-900 BWOs.

Pricing information is available on request at sales@mtinstruments.com

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