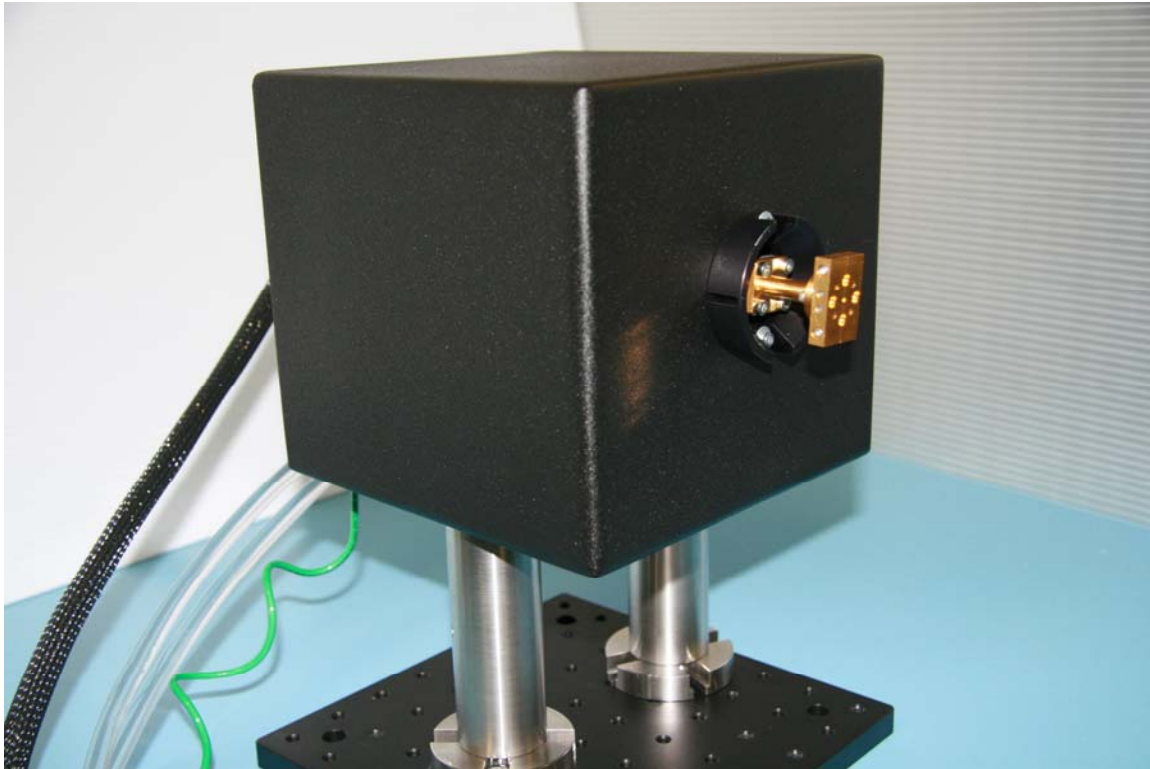


QS1-370-T Quasi-Optical Source



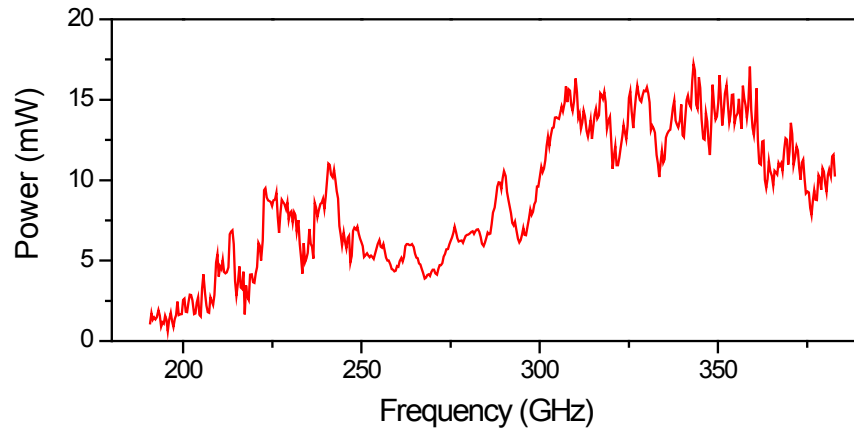
Frequency Range (GHz)	Power Range (mW)
210-370	1-10
630-1100	0.1-0.3

The QS1-370-T is a quasi-optical source, tunable across 210-370 GHz and 630-1100 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.

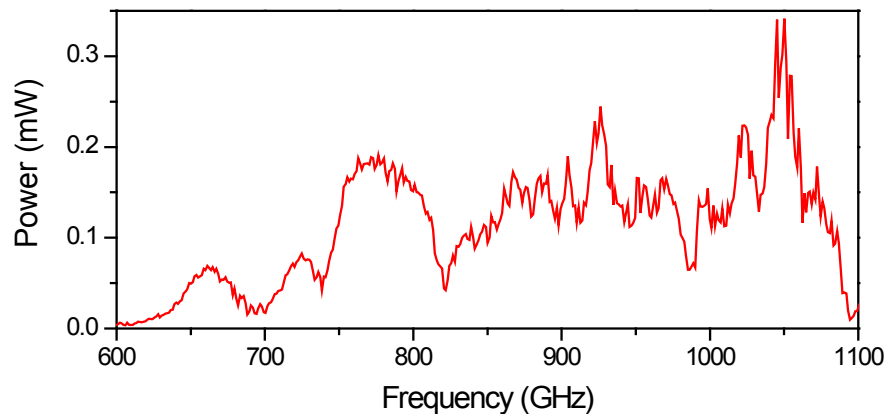
The QS1-370-T quasi-optical source is a hybrid device composed of a QS1-370 (OV-30) backward wave oscillator (BWO), waveguide adapter and a Schottky diode frequency tripler.

The QS1-370 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 QS1-370 also requires a high voltage power supply such as VR-6M and a water cooling system. In the baseline configuration, QS1-370 produces up to 10 mW of continuous wave tunable monochromatic power with a bandwidth of 3 MHz. A typical output power spectrum of QS1-370 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 630-1100 GHz with power up to 0.3 mW. The frequency tripled configuration has a bandwidth of 10 MHz. A typical spectrum in QS1-370-T is shown above.

For those applications that don't require high power in 600-1100 GHz range, QS1-370-T offers a very attractive alternative to the more expensive and complex QS1-900, QS1-1000 and QS1-1100 BWOs.

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

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