

DESCRIPTION

The **TEX8000-15** is a Laboratory-quality, RF Switched Multiplier offering +15dBm output to 8GHz when combined with a suitable fundamental signal source. Fundamental frequencies from 200-4000MHz are amplified with a nominal gain of +14dB. Above 4000MHz a frequency doubler provides a multiplication of the RF signal to a maximum of 8GHz. To minimize current draw from the USB supply, the unused RF path is powered down when not in use.

The **TEX8000-15** is the smallest USB microwave Multiplier available and offers an inexpensive alternative to broadband synthesizers.

Applications include extending the frequency range of signal generators limited to 4GHz. Combining the signal generator, **TEX8000-15** Multiplier and a power sensor creates a low cost, 8GHz scalar analyzer.

The multiplier contains 0.5GB of flash memory used for installation files, test data and other supporting documentation. The internal memory is user accessible.

CALIBRATION

Full results of factory test data are stored in each unit's flash memory and available through the USB interface.



RF DESIGN SERVICES

TEX8000-15 Rev A May 2012

BENEFITS

- +15dBm Output*
- USB 2.0 Interface
- 200MHz to 8GHz

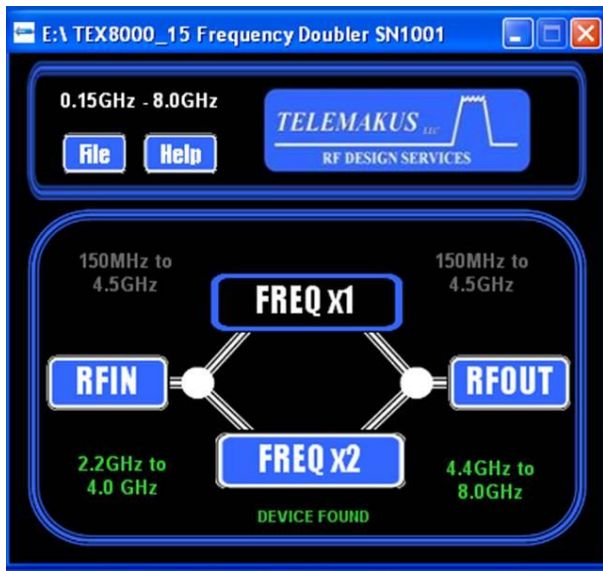
FEATURES

- Flat Power Output
- PC Software Supported
- Windows XP, Vista or 7



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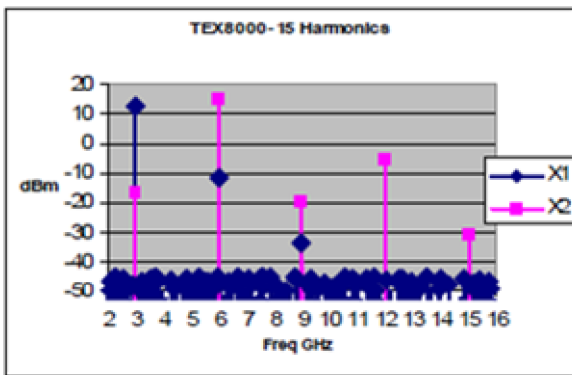


Easy to use graphical interface with single click control



Typical Configuration

When combined with the TEG4000-1 synthesized source and the TED8000-40 RF sensor, a 200 to 8000MHz scalar analyzer can be created.



Input 3GHz at 0dBm



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Ordering information

Model	Frequency	Output	Max Input
TEX8000-15	0.2GHz to 8GHz	+15dBm nom*	+3dBm

Specifications

Parameter	Specification
Frequency Range	0.2GHz to 8GHz Amplifier from 0.2-4.0GHz gain 14dB Doubler from 4-8GHz
Doubler input power	+/- 3dBm
Doubler output power	+15dBm Nominal*
Flatness	+/-3dB
Interface	USB 2.0
Current	225mA (From USB interface)
High Linearity IP3	+35dBm@1GHz Amplifier Mode
Phase Noise	<95dBc/Hz @100KHz Offset
3rd Harmonics 3xFin*	-30dBc @ >4GHz Input Doubler Mode
4th Harmonic 4xFin*	-20dBc typ
Feed through from input*	-30dBc typ
RF Connectors	SMA Male (IN)/Female (OUT)
USB Connector	Mini A

* with 0dBm nominal input

Environmental

Temperature Range	-40 to +55 degC		
Not Environmentally sealed			

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