

DESCRIPTION

The TEG4000-I is a Laboratory-quality, Synthesized RF Signal Source with minimum of 0dBm Output Power over a frequency range of 200 to 4000MHz

The TEG4000-I is the smallest USB microwave synthesized source available and is priced significantly below the current market offerings.

The source can be swept in step size as low as 1KHz between any two frequencies in its specified range.

Applications include local oscillator for frequency conversion, Scalar measurements and two or more can be combined for multi-tone testing . Use of the optional HUB allows the source to remain in a given state even after the host PC is removed from the system.

The unit also contains 0.5GB of flash memory used for installation files, test data and other supporting documentation. Drivers, utilities and documentation are available on the attenuator itself.



CALIBRATION

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



RF DESIGN SERVICES



# TEG4000-I

 Rev A June 2011

BENEFITS

Synthesized RF Source

USB 2.0 Interface

200MHz to 4000MHz



FEATURES

+1dBm Output

PC Software supported

Internal 10MHz Xtal Ref

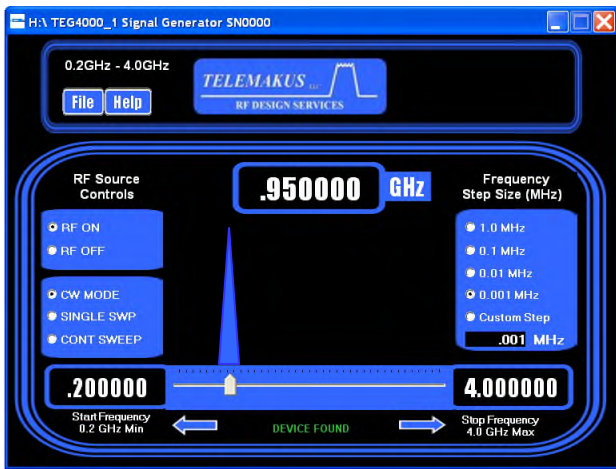
-100dBc phase noise @100KHz



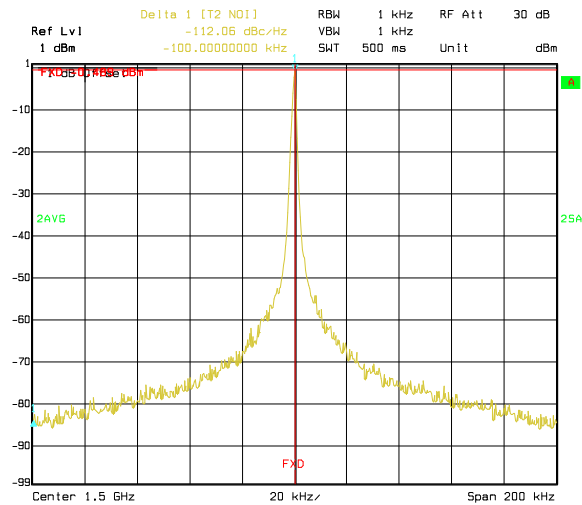
Actual Size

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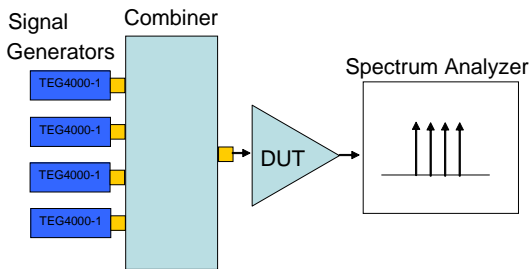
Easy to use graphical Interface with both numeric entry or slider controls.



Title: TEG4000-1 Phase Noise  
Date: 19.JUN.2011 22:47:05



Simple Scalar Analyzer



Multi-Tone IMD  
Typical Configurations



# TEG4000-1 Rev I Jun 2011

## Ordering information

| Model      | Frequency   | Typ Output Power | Phase Noise    |
|------------|-------------|------------------|----------------|
| TEG4000-1  | 200-4000MHz | +1dBm            | -100Bc@100KHz  |
| TEG3500-8  | 2.7-3.5GHz  | +8dBm            | -105dBc@100KHz |
| TEG1000-10 | 0.7 to 1GHz | +10dBm           | -105dBc@100KHz |
| TEG250-15  | 140-250MHz  | +15dBm           | -115dBc@100KHz |

## Specifications

| Parameter                         | Specification        |
|-----------------------------------|----------------------|
| Freq Range                        | 200MHz to 4000MHz    |
| Internal Ref                      | 10MHz (2 ppm)        |
| Interface                         | USB 2.0              |
| Current                           | 150mA @5V            |
| Step Size                         | 1KHz                 |
| Phase Noise @200MHz               | -118dBc/Hz @100KHz   |
| Phase Noise @1000MHz              | -108dBc/Hz @100KHz   |
| Phase Noise @3000MHz              | -103dBc/Hz @100KHz   |
| Power Output                      | 0dBm min +1dBm Typ   |
| Pout Control                      | ON/OFF               |
| 2nd Harmonics <1GHz,1-2GHz,2-4GHz | -25dBc,-20dBc,-15dBc |
| 3rd Harmonics <1GHz,1-4GHz        | -10dBc,-12dBc        |
| Spurious                          | -75dBc               |
| RF Connectors                     | SMA Female           |
| USB Connector                     | Mini A               |

## Environmental

|                            |                 |  |  |
|----------------------------|-----------------|--|--|
| Temperature Range          | -40 to +55 degC |  |  |
|                            |                 |  |  |
|                            |                 |  |  |
| Not Environmentally sealed |                 |  |  |

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