

DESCRIPTION

The TEG26500-5 is a Laboratory-quality, Synthesized Millimeter Wave Signal Source with +5dBm Output Power

The TEG26500-5 is the smallest USB millimeter wave synthesized source available and is also priced significantly below the current market offerings.

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 source 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 source itself.

CALIBRATION

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



RF DESIGN SERVICES



TEG26500-5 Rev A May2011

BENEFITS

Synthesized MMW Source

USB 2.0 Interface

24GHz to 26.5GHz



FEATURES

+5dBm Output

PC Software Supported

Internal 10MHz Xtal Ref

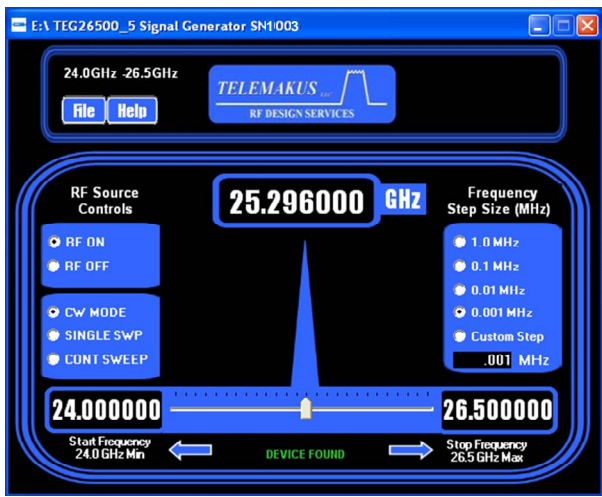


-85dBc/Hz@100KHz Phase Noise

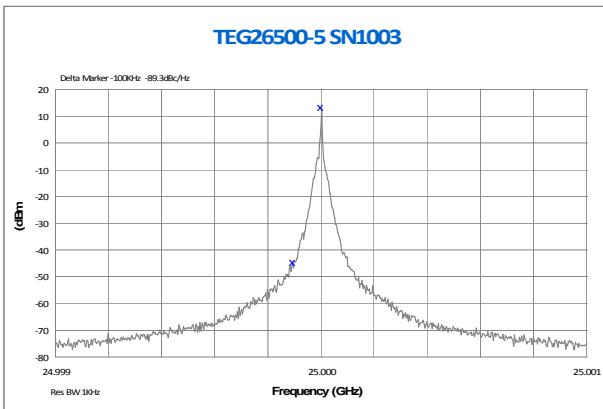


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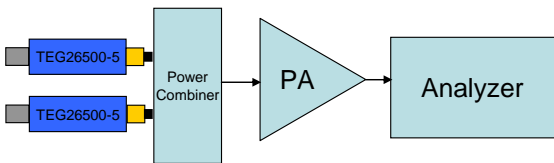
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13405 Folsom Blvd #502
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Easy to use graphical Interface with both numeric entry or slider controls.



Typical Phase Noise



Two Tone Testing

Typical Test Configurations



TEG26500-5 Rev A Apr 2011

Ordering information

Model	Frequency	Typ Output Power	Phase Noise
TEG26500-5	24GHz to 26.5GHz	+5dBm	-85dBc@100KHz
TEG24000-6	21-24GHz	+6dBm	-87dBc@100KHz

Specifications

Parameter	Specification
Freq Range	24GHz to 26.5GHz
Internal Ref	10MHz(2.5PPM Over Temp)
Interface	USB 2.0
Current	250mA @5V(USB)
Step Size	Programmable, 1KHz Resolution
Phase Noise	-85dBc/Hz@100KHz
Spurious	-80dBc
Harmonics 2nd,3rd, Fo/2	-30dBc, -30dBc, -20dBc
Power Output	+5dBm typ
Pout Control	ON/OFF
RF Connectors	2.9mm Female (K)
Weight	<1oz
USB Connector	Mini A

Environmental

Temperature Range	-40 to +55 degC		
Not Environmentally Sealed			

Warning:
Unit should not be turned ON without an appropriate load at the output due to a risk of overheating

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