

DESCRIPTION

The TEA8000-6 is a Laboratory-quality, RF Digital Attenuator with 31.5dB dynamic range and only 3.5dB typical insertion loss.

The TEA8000-6 is the smallest USB microwave DSA available and is also priced significantly below the current market offerings.

Applications include dynamically setting gain or power. When combined with a power sensor ALC or AGC loops can be implemented. Use of the optional HUB allows the DSA to remain in a given state even after the host PC is removed from the system.

The switch 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 test data is performed at the factory and results are stored in flash memory on the unit..



RF DESIGN SERVICES



TEA8000-6

Rev 2 Jun 2010

BENEFITS

31.5dB Dynamic Range

USB 2.0 Interface

2.2GHz to 8GHz



FEATURES

Low Insertion Loss

PC Software Supported

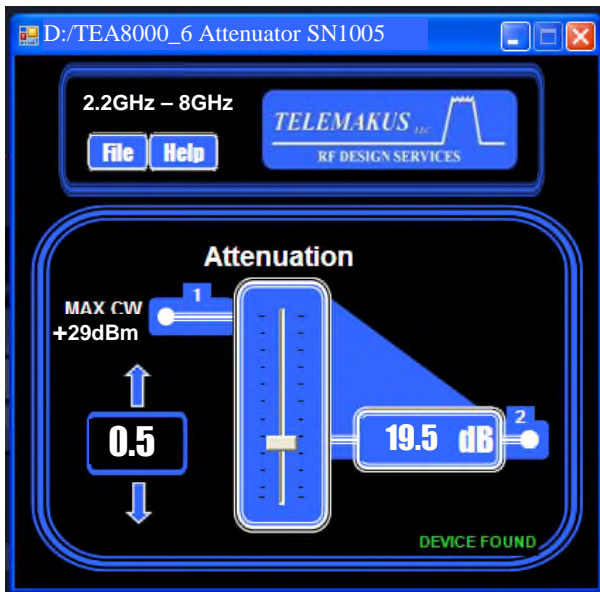
6 bit, 0.5dB Step Size

Max Input +29dBm

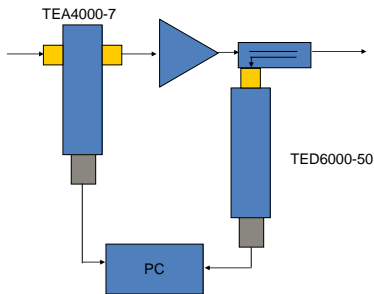


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Easy to use graphical interface with both numeric entry or slider controls.



Typical Configuration
Automatic level control



TEA8000-6 Rev 2 Jun 2010

Ordering information

Model	Frequency	Max Input
TEA8000-6	2.2GHz to 8GHz	+29dBm

Specifications

Parameter	Specification
Freq Range	2.2GHz to 8GHz
Dynamic Range	31.5dB
Interface	USB 2.0
Current	150mA (From USB interface)
Step Size	0.5dB
High Linearity	+45dBm IIP3
P0.1 dB	+22dBm
Insertion Loss	3.5dB typ /4.5dB max @8GHz
Attenuation Accuracy	+/-0.5 +5% of Atten. Setting Max
RF Connectors	SMA Male/Female
USB Connector	Mini A

Environmental

Temperature Range	-40 to +55 degC
Not Environmentally sealed	

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