

DESCRIPTION

The TED14500-45 is a Laboratory-quality, True RMS power meter with USB interface. The RF power is measured using a IC log detector and provides accurate RMS power over a 45 dB dynamic range. The device is powered from the USB interface and the power is read by a free utility running on any XP or Vista PC.

The TED14500-45 is the smallest USB power meter available and is also priced significantly below the current market offerings.

Applications include basic power measurement but also data logging for life test or system performance monitoring were the device needs to be left unattended for long periods. The optional HUB allows the TED14500-45 to continue to make measurements after the host PC is removed from the system.

The TED14500-45 also contains 0.5GB of flash memory used for calibration tables but also available for file storage and data logging. All drivers, utilities and documentation are available on the TED14500-45 itself.

CALIBRATION

Calibration is performed at the factory and cal tables are loaded in Flash. Custom calibration tables can be loaded if greater accuracy is required at a specific frequency. No zeroing or cal standards required. Temperature correction is achieved using internal temperature sensor, also available to the user.



RF DESIGN SERVICES

TED14500-45 Rev A Mar 2010 PRELIMINARY

BENEFITS

45dB Dynamic Range

USB interface

14GHz to 14.5GHz

FEATURES

True RMS Accuracy

PC Software supported

0.5dB Accuracy

Max input +20dBm



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TEDI4500-45 Rev A Mar 2010

Ordering information

Model	Frequency	Max Input	
TED6000-50	50MHz to 6GHz	+20dBm	
TEDI4500-45	14-14.5GHz	+20dBm	
TEDI0200-45	9.3-10.2GHz	+15dBm	

Specifications

Parameter	Specification
Freq Range	14GHz to 14.5GHz
Dynamic Range	45dB
Interface	USB 2.0
Current	250mA
Accuracy	+/-0.5dB
Sample Rate	10Hz
RF Input Connector	SMA Male
USB Connector	Mini A



Typical Configuration

Environmental

Parameter	Specification		
Temperature Range	-40 to +55 degC		
Not Environmentally sealed			



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