PMM 6630 USB
RF Power Sensor

Accurate in laboratory, fast in manufacturing and solidly build for field applications

Main features

- 9 kHz to 3 GHz frequency range
- 100 nW to 1 W (-40 to +30 dBm) input range
- Excellent power linearity (0.2 dBm typical)
- True RMS response across 70 dB dynamic range enables accurate CW and modulated power measurements
- Low current consumption to save laptop battery
- No need for a Reference Calibrator
- Lightweight, convenient and easy to use with desktop and laptop PC

PMM 6630 is the ideal solution for RF power measurements in a wide variety of applications, including EMC immunity test systems to calibrate CDN and Clamps as well as to measure the input power of antennas or GTEM cells. Together with a directional coupler both direct and reflect power can be measured easily and precisely. PMM 6630 is supplied with easy to use PC software to display the measurements in dBm, W, Vrms.

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SPECIFICATIONS	PMM 6630
Frequency range	9 kHz to 3 GHz
Power measurement range	100 nW to 1 W -40 to +30 dBm
Max. input power	2 W peak envelope max. 300 ms
Power linearity	0.2 dB (-40 to +30 dBm @ 50 MHz; 25 °C ± 10°C)
Measurement accuracy [1, 2, 3]	< 0.35 dB
Measurement path	High: +30 to -9 dBm Low: -9 to -40 dBm 1 dB typ. switching point hysteresis
Max. SWR	10 ÷ 300 kHz: 1.10 +30 ÷ -9 dBm >300 ÷ 100 MHz 1.05 >100 MHz ÷ 1 GHz 1.10 >1 ÷ 3 GHz 1.25 10 kHz ÷ 3 GHz 1.20 -9 ÷ -40 dBm
Operating temperature	-10°C ÷ +50°C
Power supply	5 VDC – 100 mA from USB port
RF connector	N male, 50 Ω
PC communication interface	USB 1.0 – 1.1 – 2.0
PC Software settings	N° of Averages (1 to 1024) Offset Correction Factor
Measuring units	dBm, W, Vrms
Dimensions	30 x 30 x 95 mm (WxHxP)
Weight	0.12 kg

1. Max. SWR of source: 1.25
2. Calculated with worst calibration uncertainities to the calibration factor of 0.17 dB
3. At set frequency

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