

LUMILOOP



Datasheet

———— LSPM 2.0 ————

9 kHz – 26.5(40) GHz

Triple High-Speed Power Meter

The LSPM 2.0 Triple High-Speed Power Meter is a three channel, high speed, high accuracy and high dynamic range RF Power Meter. Single and dual channel versions are available as well. Its frequency range is 9 kHz to 26.5 GHz.

Operation up to 40 GHz is supported with reduced performance.

Compensation of linearity, frequency and an actively controlled power sensor temperature guarantee accurate measurements from less than -75 dBm to at least +12 dBm. A dynamic range of >80 dB is achieved for many frequencies.

The LSPM 2.0 Triple High-Speed Power Meter's high sampling rate allows for high resolution time-domain signal analysis. The Power Meter can be synchronized with signal generators in order to realize high resolution pulse analysis.

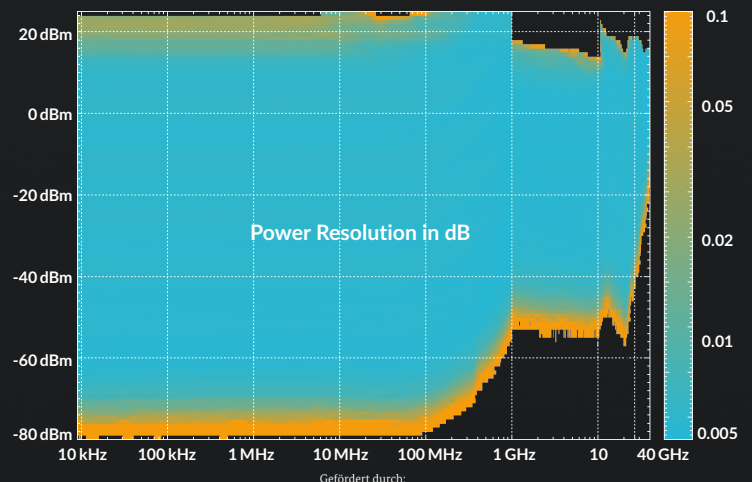
LSPM 2.0 High-Speed Power Meters can be combined with LUMILOOP's LSProbe E-Field Probes to accelerate standard EMC measurements such as IEC 61000-4-3 and 61000-4-21 by a factor of more than 100 over traditional setups. Rearward connectors are available upon request.



Specifications

Frequency Range	9 kHz ... 1GHz 1 GHz ... 26.5 GHz (usable from 80 MHz - 40 GHz)
Analog Rise Time	1.0 ms 600 ns 50 ns
Minimum Pulse Width	500 ns
VSWR	<1.22:1 up to 12 GHz <1.41:1 up to 26.5 GHz
Sampling Rate	2 MSamples/s
Measurement Range & Dynamic Range	<-75 dBm ... >23 dBm (>98 dB) <-60 dBm ... >23 dBm (>83 dB) <-45 dBm ... >12 dBm (>57 dB) <-40 dBm ... >12 dBm (>52 dB) <-15 dBm ... >12 dBm (>27 dB)
Amplitude Accuracy*	0.15 dB
Linearity Error	0.15 dB
Temperature Stability	0.1 dB
Power Resolution	<0.1 dB (see plot below)
Channel Isolation	>60 dB up to 30 GHz
Damage Level	>25 dBm
PC Interface	USB 2.0
Application Software	LSPM TCP Server, LUMILOOP GUI, CallImport
Trigger Voltage	5 V
Trigger Connector	BNC
Input Voltage	5 V ±5 %
Input Current	<3 A
Ambient Temperature	10 ... 40 °C
Dimensions (W × D × H)	165 × 142 × 61 mm ³
Certifications	CE

*) At 0 dBm, CW, accredited Calibration at esz AG calibration & metrology.



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