

LUMILOOP



Datasheet

———— LSPM 2.0 ————

9 kHz – 26.5 (40) GHz

Triple High-Speed Power Meter

Sales Partner:



ABSOLUTE EMC LLC.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com

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.



LUMILOOP GmbH

Gostritzer Str. 63
01217 Dresden, Germany
Phone: +49 (0)351 85097870
E-mail: info@lumiloop.de

www.lumiloop.de

Sales Partner:

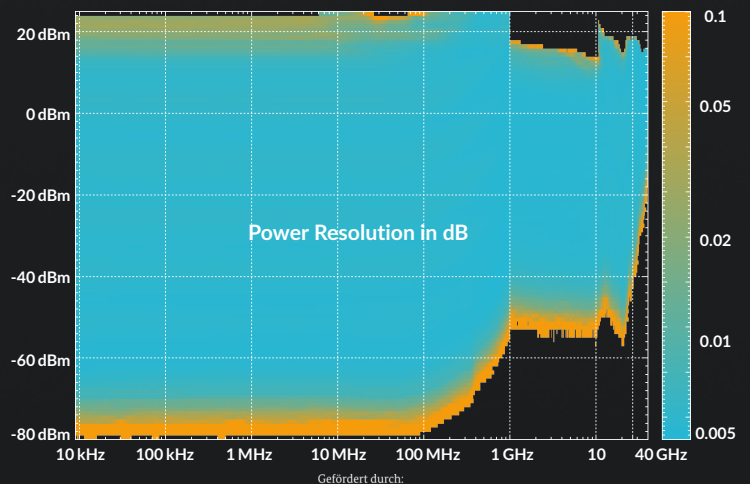


ABSOLUTE EMC LLC.
Covering sales in North America
United States, Mexico, & Canada

Specifications

Frequency Range	
Low Band	9 kHz ... 1GHz
High Band	1 GHz ... 26.5 GHz (usable from 80 MHz - 40 GHz)
Analog Rise Time	
Low Band (VBW 1 kHz)	1.0 ms
Low Band (VBW 1.7 MHz)	600 ns
High Band (VBW 20 MHz)	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	
Low Band up to 100 MHz	<-75 dBm ... >23 dBm (>98 dB)
Low Band up to 1 GHz	<-60 dBm ... >23 dBm (>83 dB)
High Band 1 ... 22 GHz	<-45 dBm ... >12 dBm (>57 dB)
High Band 22 ... 26.5 GHz	<-40 dBm ... >12 dBm (>52 dB)
High Band 26.5 ... 40 GHz	<-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.



EUROPÄISCHE UNION



aufgrund eines Beschlusses
des Deutschen Bundestages



Existenzgründungen
aus der Wissenschaft

absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com