Optical Power Meter

PN L-6001-OPM-1

DESCRIPTION

The OPM-1 is an Optical Power Meter module that plugs in to the *XBERT* and *ParalleX*™ Chassis. The module has a wide dynamic range of +10 to -70dBm over a wavelength range of 800nm to 1700nm. A universal interchangeable optical receptacle allows for mating with popular connector styles. Optical Power measurements can be displayed in dBm or Watts. When used in the XBERT chassis with EBERT, Clock, VOA and XFP/SFP+ modules, users can perform receiver sensitivity tests with one instrument.

Optical Power Meter Module L-6001-OPM-1

KEY FEATURES

- Wide Dynamic Range -70 to +10dBm
- Calibrated and NIST Traceable
- Interchangeable Optical Receptacle for Singlemode or Multimode:- LC, SC, Angled SC, FC/PC, FC/APC, ST, MU, Universal for 2.5mm diameter ferrules.
- Optical Power Measurements in dBm, Watts, or relative (P/Pref)
- LabView™ drivers available
- Small size: width 50.8mm (2”)

XBERT PLATFORM: LETS YOU START SMALL AND GROW BIG

XBERT is a low-cost, modular Bit Error Rate Test Platform used for verification and test of 10Gb/s and above optical and electrical chip, sub assembly and system designs. *ParalleX*™ allows users to perform several BER tests at once using a single clock source. The system is ideal for developers desiring to run simultaneous BER tests on parallel interfaces or multiple independent interfaces. *XBERT* and *ParalleX*™ are scalable so users can start off with a single channel and add modules to grow the system. Manufacturers can realize great savings by taking advantage of the *XBERT* and *ParalleX*™ system’s scalability to perform parallel testing in volume production environments.

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KEY PERFORMANCE PARAMETERS

PARAMETER	SYMBOL	Min	Max	UNIT	NOTE
Wavelength	λ	800	1700	nm	
Measurement Range	M_R	-75	+10	dBm	
Measurement Units	M_U	dBm, Watts, relative (P/Pref)			
Resolution	R	.01		dBm	
Accuracy	A	-5	+5	%	@23°C
Linearity	L	-0.3	+0.3	dB	NOTE 1
Available optical connector receptacles			LC, SC, Angled SC, NTT-FC/PC, FC/APC, AT&T-ST, MU, Universal for 2,5mm diameter ferrules		
Operating Temperature	T_{OP}	0	50	°C	Ambient temp.

NOTE 1 Measured at 23°C, 1550nm between 0 to -60dBm.

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