

LP-5025/A50
1310nm/1550nm LASER
LOSS TEST SET

TONE DET -88.88 nm
dBm
850 1310 1550
Source POWER LOSS ORL
CW 2kHz
PASS -8.8.8.8 mw
FAIL uw
dBm
Source Mod. ORL
dBm/W P/F Range λ alt
Min MR MC



BKLGHT PRINT

MODE }
ZERO }
 λ

STORE REF

**LP-5025 Series
Fiber Optic Power Meters
Optical Return Loss Meters
Loss Test Sets
Multimeters**

Specifications:

Models	LP-5025, LP-5025C, LP-5025/AXX, LP-5025/SXX, LP-5025/MXX
Optical Detection	
Detector	2 mm Germanium PIN photodiode
Detection Range	800 to 1800 nm
Primary Wavelengths	850, 1310, 1550 nm
Calibrated Wavelengths	820, 830, 840, 850, 860, 870, 880, 980, 1244, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1480, 1510 1520, 1530, 1540, 1550, 1560, 1620 nm
Numerical Aperture	0.3 (max.)
Noise Equivalent Power	-85 dBm typical
Resolution	0.01 dB, Watts: 0.01%
Measurement Range:	
LP-5025	+10 dBm to -70 dBm
LP-5025C	+20 dBm to -60 dBm
LP-5025/AXX, LP-5025/SXX and LP-5025/MXX	+10 dBm to -70 dBm
Accuracy	
LP-5025, LP-5025/AXX, LP-5025/SXX, LP-5025/MXX	
@ 820 to 980 nm, 1620 nm	± 4% @ +5 dBm to -60 dBm; ± 8% @ +10 dBm to +5 dBm and @ -60 dBm to -65 dBm
@ 1244 nm to 1560 nm	± 4% @ +5 dBm to -65 dBm; ± 8% @ +10 dBm to +5 dBm and @ -65 dBm to -70 dBm
LP-5025C	
@ 820 to 980 nm, 1620 nm	± 4% @ +15 dBm to -50 dBm; ± 8% @ +20 dBm to +15 dBm and @ -50 dBm to -55 dBm
@ 1244 nm to 1560 nm	± 4% @ +15 dBm to -55 dBm; ± 8% @ +20 dBm to +15 dBm and @ -55 dBm to -60 dBm
Dynamic Range	LP-5025, LP-5025C: N/A; LP-5025/AXX: 66 dB; LP-5025/SXX: 63 dB (typical specs)
Power Meter Optical Connectors	Universal connector interface accepts adapters for all MM and SM connector types and bare fiber (please specify when ordering)
Display	LCD with backlight; 4 digit output
Information Displayed	Watts, dB, dBm, Laser & Power Meter wavelength, current loss reference, modulation mode, modulation detect, Pass/Fail indicator, low battery, soft key menu selections
Battery Save	Selectable battery save option will power the unit off after 15 minutes of inactivity to conserve battery power.
Optical Output	
Wavelength:	
LP-5025/A10 and S10	1310 nm + 20 nm / -40 nm
LP-5025/A20 and S20	1550 nm ± 30 nm
LP-5025/A50 and S50	Dual: 1310 nm -20 nm / -40 nm / 1550 nm ± 30 nm
LP-5025/M00	850 nm ± 20 nm
LP-5025/M10	1300 nm ± 20 nm
LP-5025/M50	Dual: 850 nm / 1300 nm ± 20 nm
Output Power:	
LP-5025/AXX	-4dBm typical, -4.7 dBm minimum (9/125 um core)
LP-5025/SXX	-7 dBm typical, -7.7 dBm minimum (9/125 um core)
LP-5025/M00/M10	-15 dBm typical, -16 dBm minimum
LP-5025/M50	-18 dBm typical, -19 dBm minimum
Light Source:	
LP-5025/AXX and SXX	Laser Diode (LD)
LP-5025/MXX	Light Emitting Diode (LED)
Spectral Width:	
LP-5025/AXX and SXX	≤5 nm (RMS)
LP-5025/MXX	≤60 nm at 850 nm; ≤145 nm at 1300 nm (FWHM)
Modulation Modes	CW, 2 kHz
Spectral Stability	±15 nm over operating temperature range (AXX, SXX)
Long Term Power Stability	SM: ≤ 0.1 dB at 1310/1550 nm (AXX, SXX)
(All specs for 8 hrs. at 25° C.)	MM: ≤ 0.2 dB at 850/1300 nm (MXX)
Temperature Stability	Will not vary more than 0.5 dB over operating temperature range
Laser Safety	CDRH Class I laser (eye safe)
Light Source Optical Connectors	LP-5025/AXX: universal style APC, UPC, SPC; LP-5025/SXX: FC/APC; LP-5025/MXX: universal style PC

Continued on reverse.

**LP-5025 Series
Fiber Optic Power Meters
Optical Return Loss Meters
Loss Test Sets
Multimeters**

Specifications:

Physical

Dimensions 7.50" L x 3.50" W x 1.5" D (191 mm x 89 mm x 38 mm)
Weight 1.25 lbs (567 grams)

Power

AC Power 110/120 or 240 volt AC Charger/Adapter
Battery Power 5 "AA" cell, NiCd or Alkaline Batteries
NiCd Battery Life (typical) 30 hours (AXX, SXX, MXX)
10 hours when source in use (AXX, SXX)
7.5 hours when source in use (MXX)

Alkaline Battery Life (typical) 120 hours (AXX, SXX)
110 hours (MXX)
45 hours when source in use (AXX, SXX)
25 hours when source in use (MXX)

NiCd Recharge Time Operating: 16 hours typical; Non-operating: 12 hours typical

Environmental

Operating: Temperature and Humidity -10° to 50° C (14° to 122° F) 95% RH max, non-condensing, max Altitude: 15,000 ft.
Storage: Temperature and Humidity -40° to 60° C (-40° to 140° F) 95% RH max, non-condensing, max Altitude: 50,000 ft.

Standard Accessories

Operator's Manual Part # LP-24506
5 "AA" Cell NiCd Batteries Part # LP-14854
Power Meter Adapter Cap Part # AM-430-XX
Mandrel (LP-5025/SXX Only) Part # LP-26037
Universal Connector Adapter
(qty 1 with LP-5025/AXX) Part # UC-130-XX
Screwdriver Part # LP-25607
Quick Reference Card Part # LP-26631

Options

Alkaline Batteries Part # LP-27737
Hard Case Part # LP-501 4" D x 13" W x 17" L (102 mm x 330 mm x 432 mm)
Soft Case Part # LP-502

Optical Return Loss

(LP5025/SXX only)
Measurement Range 5 to 60 dB
ORL Accuracy 1550 nm: ± 1.0 dB @ 5 to 60 dB 1310 nm: ± 1.0 dB @ 5 to 50 dB, ± 2.0 dB @ 50 to 55 dB, ± 5.0 dB @ 55 to 60 dB
Stability ± 0.2 dB @ 25 C for 8 hrs.; ± 0.5 dB throughout operating temperature range.