



Optical Sources/Power Meter/Attenuator

**TOP130 * TOP140 * TOP160 * TOP200
* TOP220 * TOP300 * TOP400**

CHARACTERISTICS

TOP130

Optical

- Functions
 - **MOD:** Modulated output mode.
 - **CW:** Continuous wave DC output mode.
 - **FREQ:** User selectable frequency - 270 Hz, 1 kHz or 2 kHz.

Center Wavelength - 850 nm: 830-880 nm,
1300 nm: 1270-1345 nm.

Spectral Width (FWHM) - 850 nm: <55 nm;
1300 nm: <140 nm.

Stability (1 Hour) - ± 0.05 dB.

Power Output (Into 62.5/125 GI Fiber) - 850 nm:
-13 dBm (50 μ W).
1300 nm: -20 dBm (10 μ W).

Connector Interface - Universal (SOC) interface.
Choice of standard adapters.

Power

Source - Two AA batteries.

Battery Life - >20 hours.

Environmental

Temperature -

Operating: -15°C to +55°C, 0 to 95% RH
(noncondensing).

Storage: -35°C to +70°C, 0 to 95% RH
(noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	240	8.4

[Features](#)

[> Specs](#)

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TOP140 AND TOP160

Optical

Center Wavelength - TOP140: 1310 nm (1280-1340 nm).

TOP160: 1310/1550 nm (1280 to 1340 nm and 1520 to 1580 nm).

Spectral Width RMS - 5 nm.

Stability - 1 hour maximum deviation: ± 0.05 dB.
24 hours maximum deviation: ± 0.15 dB.

Power Output*1*3 (into SM -28/9 μ m Core) -
TOP140 and TOP160: -7 dBm (200 μ W).

Power Output Uncertainty*2 - ± 0.5 dB (calibrated launch level into SM-28/9 μ m core fiber).

Connector Interface - Universal (SOC) interface.
Choice of standard adapters.

Power

Source - Two AA alkaline batteries.

Battery Life - TOP 140: >80 hours.
TOP 160: >50 hours.

Environmental

Temperature -

Operating: -15°C to +55°C, 0-95% RH
(noncondensing).

Storage: -35°C to +70°C, 0-95% RH (noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	230	8

*1 Within specified ambient temperature of +20°C to +25°C.

*2 Specified with properly terminated FC-PC, ST, SC, DIN, HMS-10/HP (2.5 mm) connectors. Uncertainty for other connectors may be higher.

*3 In modulated mode, power is 3 dB lower.

TOP200

Optical

Sensor Type - InGaAs (1 mm).

Power Range - +3 to -60 dBm.

Cal Wavelengths - 850, 1300 and 1550 nm.

Absolute Accuracy - ± 0.25 dB at calibration conditions.

Display - Custom triplexed liquid crystal display with 4-digit data field (0.01 dB resolution) and simultaneous display of cal wavelength.

Display incorporates the following distinct annunciators: 850, 1310, 1550, dB, dBm, B (Low Bat) and C (CAL).

Calibration Data - Data stored in nonvolatile memory.

Connector Interface - Universal (SOC) Interface.

Power

Source - Two AA alkaline batteries.

Battery Life - >100 hours.

Environmental

Temperature -

Operating: -15°C to $+55^{\circ}\text{C}$, 0-95% RH (noncondensing).

Storage: -35°C to $+70^{\circ}\text{C}$, 0-95% RH (noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	250	8.9

TOP220

Optical

Sensor Type - InGaAs (2 mm).

Power Range - +27 to -30 dBm.

Cal Wavelengths - 980, 1310 and 1550 nm.

Absolute Accuracy - ± 0.25 dB at calibration conditions.

Display - Custom triplexed liquid crystal display with 4-digit data field (0.01 dB resolution) and simultaneous display of cal wavelength.

Calibration Data - Data stored in nonvolatile memory.

Connector Interface - Universal (SOC) Interface.

Power

Source - Two AA alkaline batteries.

Battery Life - >100 hours.

Environmental

Temperature -

Operating: -15°C to +50°C, 0-95% RH
(noncondensing).

Storage: -35°C to +70°C, 0-95% RH (noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	250	8.9

TOP300

Optical

Center Wavelength - 635 nm (630-640 nm).

Spectral Width (FWHM) - <2 nm RMS.

Stability - 1 hour maximum deviation: ± 0.15 dB.
10 hours maximum deviation ± 0.25 dB.

Power Output (Into SMF -28 Fiber) - -5 dBm.

Connector Interface - Universal Connector Interface (UCI), UCI Adapters.

Power

Source - Two AA alkaline batteries.

Battery Life - >20 hours.

Environmental

Temperature -

Operating: -15°C to +40°C, 0-95% RH
(noncondensing).

Storage: -35°C to +70°C, 0-95% RH (noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	230	8.1

TOP400

Optical

Insertion Loss - <2 dB (1.25 dB typical).

Attenuation Range - 0 to 35 dB.

Return Loss - <-40 dB (with FC, ST, SC and DIN connectors).

Connector Interface - Universal Connector Interface (UCI).

Environmental

Temperature -

Operating: -15°C to +60°C, 0-95% RH (noncondensing).

Storage: -35°C to +70°C, 0-95% RH (noncondensing).

Physical Characteristics

Dimensions	mm	in.
Width	72	2.8
Height	142	5.6
Depth	36	1.4
Weight	g	oz.
Net	230	8.1

 [Top of Page](#)

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[> Specs](#)

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Product manufactured in ISO 9001 registered facilities



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