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Operating and Programming Manual

HP 81553SM Lightwave Multimeter Source Module

SERIAL NUMBERS

This manual applies to all instruments.



HP Part No. 81553-90011
Printed in Germany

Second Edition
E0796

HP 81553SM Specifications

Specifications describe the instrument's warranted performance. Supplementary performance characteristics describe the instrument's non-warranted typical performance.

Because of the modular nature of the instrument, these performance specifications apply only to this module. You should insert these pages into the appropriate section of the manual.

Table C-1. HP 81553SM Specifications

Type	FP-Laser
Central Wavelength ^[1]	1550nm±20nm
Fiber Type	single mode 9/125µm
Spectral Bandwidth (RMS) ^[2]	<4nm rms
Output Power ^[3]	>0dBm
CW-Stability ^[4]	
Short Term (15min, T= Constant)	±0.003dB
Long Term (6h, T=0 to 55°C±1K)	±0.03dB
Operating Temperature	0°C to +55°C
Dimensions	75mm H, 32mm W, 335mm D (2.8" × 1.3" × 13.2" ×)
Weight	net 0.7kg (1.5lbs), shipping 1kg (2.2lbs)
Recalibration Period	1 year
<p>^[1] Central Wavelength is shown on the display.</p> <p>^[2] rms: root mean square.</p> <p>^[3] Class 3A according to IEC 825-1 (1993), Class 1 according to FDA CFR 21 (1986)</p> <p>^[4] After a warm-up time of 60 min. with output enabled. If previously stored at the same temperature, 20 min. only.</p>	

Supplementary Performance Characteristics

Internal Digital Modulation

You can select internal modulation frequencies of 270HZ, 1kHz, or 2kHz. All outputs are pulse shaped, with a duty cycle of 50%.

Output Attenuation

The output can be attenuated from 0 to 6dB, in steps of 0.1dB.

Stability

The value of the long term CW-stability doubles with just one minute warmup time (source enabled).