

Features

- 660nm wavelength
- Stable calibrated output
- Proven, reliable, and compact design
- Easy to use—two buttons control all essential functions
- Continuous wave and modulated output modes
- Snap-On Connector (SOC) interface adapts to all industry standard fiber optic connectors and other less common types
- Long battery life—more than 24 hours of continuous operation
- User-selectable auto-shutoff
- AC power converter and adapter available for prolonged or benchtop use
- Rugged and splashproof
- Economically priced



Applications

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 557B optical power meter, the 253B serves as an ideal 660nm LED source for testing the insertion loss of multimode fiber optic cables and connectors. The 253B can also be used with an optical power meter for link loss testing of installed cable plants.

With a calibrated launch optimized for 200/230µm step-index multimode fiber, the 253B LED source is particularly useful for testing and maintaining local area networks (LANs), premises networks, fiber distributed data interfaces (FDDI), and some telecommunications systems.

In addition, a broad range of Snap-On Connector (SOC) adapters for both industry standard fiber optic connectors, and many less common types, makes the 253B an indispensable tool for LAN service technicians and others working with light-based transmission systems.

Key Specifications

Nominal wavelength	660nm
Wavelength range	640-680nm
Max. spectral width	40nm
Stability, 1 hour	±0.05dB
Power output into: 200/230µm SI MM	-15dBm
Power output uncertainty	±0.5dB
Modulation frequencies (±0.5%)	270Hz, 1kHz, 2kHz

Ordering Information

One Snap-On Connector (SOC) adapter is included with the 253B LED source. Please specify the desired connector adapter type when ordering using the SOC Adapter Table, below. Additional SOC adapters may also be ordered separately.

Part No.	Description
253B	253B 660nm LED source
90AC	AC power converter

SOC Adapter Table

Adapter Code	Connector Type
1001	Blank
1010	DIN 47256
1020	NTT/FC-PC
1030	AT&T/ST-PC
1038	MIL-T-29504 optical termini
1040	HMS-10 (2.5mm)
1047	Mini-BNC
1050	Diamond HMS-0 (3.5mm)
1057	Stratos 430/Holtek 38000
1062	NTT/SC-PC
1081	Radiall VFO
1086	Diamond HMS-10A (SMA-2.5)
1087	SMA-905/906
10E0	Radiall EC
10E2	Diamond E-2000
10TB	Simplex TOSLINK/Spectran J-pin
10TD	TR/TX set, duplex TOSLINK/ Spectran J-pin
10TR	Duplex TOSLINK TX
10TX	Duplex TOSLINK TR
10ZP	H-P Versalink/Spectran V/Z-pin

Specifications¹

Subject to change without notice

Center wavelength:	
Nominal	660nm
Range (typical)	640nm to 680nm
Max. spectral width (FWHM)	40nm
Stability, 1 hour	±0.05dB
Power output into:	
200/230µm SI MM	-15dBm ²
Power output uncertainty	±0.5dB
Modulation frequencies	270Hz, 1kHz, and 2kHz ±0.5%
Power requirements	Two AA-size 1.5V alkaline batteries provide more than 24 hours of continuous operation
Connector interface	Snap-On Connector (SOC) interface
Environmental:	
Operating temp.	-15°C to +55°C
Storage temp.	-35°C to +70°C
Humidity	0 to 95% RH, non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	215g (7.6 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group 1, Class A; EN50082-1: 1992; IEC 801-2, -3, -4

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

² Calibrated launch level.

