FX86

CWDM Quad Laser Source

Quad output laser source to verify, install, and commission CWDM networks. Verify wavelength routing and troubleshoot passive CWDM network elements or verify multiple GPON drops with unique identifiers. Optimized for Access & Metro CWDM test applications.

Key Features

- Low cost, hand-held tunable CWDM laser source
- Fast boot-up time and laser stabilization (< 5 seconds)
- Supports any four CWDM wavelengths
- Outputs can be activated and modulated individually
- Industry standard modulation for use with fiber identifiers
- Output ports equipped with dust and safety protection shutter
- Monochrome LCM, 128 x 64 pixels, LED backlit display
- Li-Polymer rechargeable battery, > 4 hours operation with 1 laser continuously
- Rugged polycarbonate case with impact resistant rubber boot, 1 meter drop tested
- Splash and dust resistant keypad

Key Specifications

- Up to four CWDM wavelengths per the ITU-T G.694.2 grid
- Wavelengths available: 1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591 & 1611 nm
- Max four channels with any CWDM wavelength combination
- Channel spacing: 20 nm (ITU-T G.694.2 grid)
- Wavelength accuracy: ± 3 nm
- Linewidth: ± 0.5 nm
- Modulation: 270 Hz, 330 Hz, 1 kHz and 2 kHz
- Optical Isolation: 40 dB
- SMSR: 35 dB minimum
- Output Power: + 2 dBm (typical)
- Laser Safety: Class 1 per IEC 60825-1:2014

Optical Specifications[1]

Light Source	Specification
Wavelength Range (nm)	1271 to 1611 (20 nm steps)
Wavelengths (nm) per ITU-T G.694.2	1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591 & 1611 nm
Wavelength Accuracy (nm)	± 3
Maximum number of Channels[2]	4
Linewidth (nm)[4]	0.5
Optical Isolation (dB)[3]	40 (Typical)
SMSR (dB)	35
Minimum channel spacing (GHz)	50
Internal Wavelength Stabilization (GHz)	± 2.5
Output Power (dBm)	+ 2 (Typical)
Laser Safety (IEC 60825-1:2014)	Class 1
Interface	APC
Connector Type	Fixed SC

Notes:
1. At specified operating temperature
2. Number of lasers
3. In a 0.1 nm wide band
4. At -3 dB bandwidth
5. At calibrated wavelengths

General Specifications

Size:	164.39 x 100 x 46.93 (6.47” x 3.94” x 1.85”)	Display:	Monochrome LCM with backlight
Weight:	0.42 kg (0.93 lb)	Operating Temp:	-10 °C to +50 °C
Construction:	Rugged, Polycarbonate chassis, 1 meter drop tested	Storage Temp:	-20 °C to +70 °C
		Humidity:	0% to 95%, non-condensing
Battery:	Built-in Rechargeable Li-Polymer		
Power Supply:	Micro USB interface, 5 VDC charger		

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D05-00-164P A00 2019/04