

DTX Fiber Modules Extended Specifications

| Optical Specifications ¹ | |
|--|---|
| Testing speed | - Far end source mode (1 λ): ≤4.5 s |
| (worse case not including | - Loopback mode (2 λ , 2 fibers, auto OLB and pass/fail): ≤5 s |
| reference measurement) | - Smart remote mode (2 $\lambda,$ 2 fibers, auto OLB and pass/fail): $\leq\!\!12$ s |
| | - FindFiber mode: ≤3 s |
| Input (Meter) connectors | Removeable adapter on fiber optic power meter (input port). |
| | Removable SC adapter standard with product. Optional removable |
| | adapters: LC, ST and FC |
| Output (Source) connectors | Fixed SC adapter |
| Source type and nominal wavelength | DTX-MFM2: 850 nm LED and 1300 nm LED |
| | DTX-SFM2: 1310 nm FP laser and 1550 nm FP laser |
| | DTX-GFM2: 850 nm VCSEL and 1310 nm FP laser |
| Source wavelengths | DTX-MFM2: 850 ±30 nm, 1300 ±20 nm |
| | DTX-SFM2: 1310 ±20 nm, 1550 ±30 nm |
| | DTX-GFM2: 850 ±20 nm, 1310 ±20 nm |
| Source spectral width (FWHM) | DTX-MFM2: 30-60 nm at 850 nm, 100-140 nm at 1300 nm |
| Source power | DTX-MFM2: ≥-20 dBm at 850/1300 nm |
| | DTX-SFM2: ≥-7 dBm at 1310/1550 nm |
| | DTX-GFM2: ≥-7 dBm at 850/1300 nm |
| Source power stability ² | DTX-MFM2: ±0.1 dB over 8 hours |
| | DTX-SFM2: ±0.25 dB over 8 hours |
| | DTX-GFM2: ±0.25 dB over 8 hours |
| Length measurement ³ | DTX-MFM2: 0-5,000 m of 62.5 or 50 µm fiber |
| | DTX-SFM2: 0-10,000 m of 9 μ m singlemode fiber |
| | DTX-GFM2: 0-5,000 m of 62.5 or 50 μm fiber |
| Length measurement accuracy | $\pm 1.5 \text{ m} \pm 2\%$ of length |
| Propagation time accuracy | ± 15 ns $\pm 2\%$ of propagation time |
| Power meter type | InGaAs detector |
| Power meter calibrated wavelengths | 850 nm, 1310 nm, 1550 nm |
| Power measurement range | 0 to -60 dBm (1310 nm and 1550 nm) |
| | 0 to -52 dBm (850 nm) |
| Power measurement uncertainty ⁴ (accuracy) | ±0.25 dB |
| Measurement linearity | ±0.1 dB ⁵ (1310 nm and 1550 nm) |
| | ±0.2 dB° (850 nm) |
| Display resolution, dB or dBm | |
| μ W >400, >40, >4, >0.4, \leq 0.4 | 1, 0.1, 0.01, 0.001, 0.0001 |
| Display update rate | |
| length measurement) | DIA-MIFM2: ≥ 12 UD |
| tength measurement) | DIA-SEMIZ: ≥ 22 UD |
| Po colibration pariod | DIA-GFM2: ≥22 GB |
| VEL Specifications | i yeai |
| | <1 0 mW |
| Operating wavelength | 650 nm nominal |
| Output modes | Continuous wave and pulse mode |
| Connector adapter | 2.5 mm universal |
| Laser safety | Class II CDRH |
| | |







Above specifications are subject to change without notice

² After five-minute warm-up time.

³ In Loopback mode, length is total fiber length. In Smart remote mode, length is length between main and smart remote units.

 $^{\scriptscriptstyle 4}$ Power level -20 dBm, continuous wave, 62.5/125 at 850 nm, 9/125 at 1310 and 1550 nm

- $^{\rm 5}$ For 1310 and 1550 nm, ±0.1 dB from 0 to -55 dBm, ±0.2 dB < -55 dBm
- $^{\rm 6}$ For 850 nm, ±0.2 dB from 0 to -45 dBm, ±0.25 dB < -45 dBm

 $^{\scriptscriptstyle 7}$ Into SMF-28 singlemode fiber, continuous wave and pulse modes, SC/UPC connector

¹ At 23°C unless otherwise specified.



| Environmental Specifications | |
|--|---|
| Operating temperature | 0°C to 40°C |
| Storage temperature | -20°C to 60°C |
| Relative humidity | 95% (10° to 35°C) |
| (%RH operating without condensation) | 75% (35° to 40°C) |
| | uncontrolled < 10°C |
| Vibration | Random, 2 g, 5-500 Hz |
| Shock | 1 m drop onto all corners and faces, test cables not attached |
| Safety | CSA C22.2 No. 1010.1: 1992 |
| | EN 61010-1 1 st . Edition + Amendments 1, 2 |
| | CE |
| Altitude | 3000 m |
| EMC | EN 61326-1 |
| General Specifications | |
| Dimensions (L × W × D), nominal | 106 mm x 76 mm x 28 mm (4.2 in x 3.0 in x 1.1 in) |
| Weight, nominal | 0.14 kg (0.31 lb) |

N E T W O R K S U P E R V I S I O N

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