

FTB-5240S-HPW-NS1711

OPTICAL SPECTRUM ANALYZER (OSA)

- This future-proof OSA goes beyond the limitations of a simple channel checker, offering stripped-down software without the overhead of a full OSA—providing the power and wavelength required for any type of network and transmission.



KEY FEATURES

Versatile and flexible OSA for CWDM, DWDM and hybrid network testing

Ideal for WDM-PON and parallel optics validation

Minimal acquisition cost, ideal for today's testing requirements

Future proof: upgradable to a full OSA via software key upgrade

SPECIFICATIONS^a

SPECTRAL MEASUREMENT

Wavelength range (nm)	1250 to 1650
Wavelength uncertainty (nm) ^b	±0.05 ±0.01 ^{c, d}
Reference	Internal ^e
Resolution bandwidth (FWHM) (nm) ^f	0.065 ^{b, d}
Wavelength linearity (nm)	±0.01 ^{b, d}
Wavelength repeatability 2σ (nm)	±0.003 ^g

POWER MEASUREMENT

Dynamic range (dBm) (per channel) ^b	-70 ^h to +23
Maximum total safe power (dBm)	+29
Absolute power uncertainty (dB) ⁱ	±0.5
Power repeatability 2σ (dB) ^{d, g}	±0.05

GENERAL SPECIFICATIONS

Temperature	operating storage	0 °C to 40 °C (32 °F to 104 °F) -20 °C to 50 °C (-4 °F to 120 °F)
Connectors		EI (EXFO UPC Universal Interface) EA (EXFO APC Universal Interface)
Size (H x W x D)	FTB-5240S module FTB-5240BP module	96 mm x 51 mm x 260 mm (3 ¾ in x 2 in x 10 ¼ in) 96 mm x 76 mm x 260 mm (3 ¾ in x 3 in x 10 ¼ in)
Weight	FTB-5240S module FTB-5240BP module	1.5 kg (3.3 lb) 1.7 kg (3.8 lb)

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1
CLASS 1 LASER PRODUCT

ORDERING INFORMATION

FTB-5240S-NS1711-XX

Model

FTB-5240S-NS1711 = Optical spectrum analyzer

Connector adapter

EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000
EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000

Example: FTB-5240S-NS1711-EI-EUI-89

- a. All specifications are for a temperature of 23 °C ± 2 °C with an FC/UPC connector unless otherwise specified, after warm-up.
b. From 1520 to 1610 nm.
c. After user calibration in the same test session within 10 nm from each calibration point.
d. Typical.
e. Integrated and wavelength-independent self-adjustment.

- f. Full width at half maximum.
g. Over one minute in continuous acquisition mode.
h. With averaging.
i. At 1550 nm, -10 dBm input.

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