



Technical Specifications **BOSA-C**

TS001_0102_0307

Optical Resolution (@3dB)	80fm (10MHz @1550nm)
Wavelength Range ⁽¹⁾	1528-1565nm
Span Range	1 pm to complete range
Wavelength Accuracy ⁽¹⁾	depends on TLS model
Dynamic Range	> 80dB
Close-in Dynamic Range	>40dB @±0.33pm (filter width @ 40dB depth) >60dB @±0.44pm (filter width @ 60dB depth)
Power Range	+10 to -70dBm
Sensitivity ⁽²⁾	-70dBm/0.1 pm
Power Accuracy ⁽³⁾	±1.5 dB
Maximum Safe Total Input	+20 dBm
Polarization Dependence ⁽⁴⁾	±0.5 dB
Optical Input Test (SUT)	SMF; FC/APC (other on request)
Optical Input TLS (probe)	PMF panda type; FC/APC (other on request)
Power Requirement	100/110/220v, 50/60Hz
Measurement time	1s for 10nm
Maximum Power	120W
Dimensions (mm ³)	440x370x88
Weight	10 Kg
Operating Temperature	+15°C to +35°C
Advanced Functions	Spectral width, Total power integration, Power meter, Traces & Markers functionalities, Polarization control, Peak search, Ref. level search, Hold max/min, Averaging, Automeasure, Macro Editor Tool (Automated measurements)
Data storage	Hard disk and External USB storage File type: *.txt, *.csv, *.jpg Video recording:*.avi format
External Application	<i>BOSA Trace Viewer Application</i> to view and analyze traces

These specs are subject to change without further notice. Check the latest status in www.aragonphotonics.com.



Technical Specifications **BOSA-C**

TS001_0102_0307

Notes:

- (1) Wavelength dependent figures such as accuracy or repeatability are determined by the TLS. The **BOSA** is only compatible with selected tunable lasers that assure the requested quality from the probe. Aragón Photonics recommends the selection of the best among them, depending on customer needs. Aragón Photonics recommends the periodical calibration of the TLS according to the advice of the manufacturer
- (2) Sensitivity is defined as signal value $> 6 \times$ RMS noise value, after averaging, polarization control and with *Lock Trace* on. This is given for a TLS probe with a dynamic relative power flatness of less than ± 0.02 dB.
- (3) Valid for any wavelength and power value (polarization dependence included). Valid for measurements made with polarization control, in high sampling rate mode and averaging.
- (4) For 1σ (63 % of the cases). Typical value: ± 1 dB.

Valid for software revision 1.1 or higher.