VIAVI Solutions | SAVITRI TELECOM SERVICES

Optical Broadband Source (BBS) Module

For OneAdvisor 800 platform

The VIAVI Optical Broadband Source (BBS) module delivers comprehensive fiber characterization including coarse wavelength division multiplexing (CWDM) and dense wavelength division multiplexing (DWDM) applications in a rugged, modular platform ideal for field use.

High speed metro/core and data center interconnect (DCI) network deployments or upgrades are driving fiber characterization test out to field tech support groups. The growing number of projects is driving an increasing demand for higher productivity with better reliability and availability. In addition to deploying fiber infrastructures that perform perfectly, network operators are challenged by the need to reduce operating expenses while adding new revenue generating services, all within an environment that seems to grow more complex by the minute.

KEY FEATURES

- One unique solution for measuring CD, PMD, and AP
- Shock-proof and vibration-proof with no moving parts
- Compatible with VIAVI ODM module (8100 Series) for PMD, CD and AP Measurements
- Tests high-performance components

KEY APPLICATIONS

- DWDM and very-high-speed network characterization
- CWDM system testing
- Water peak qualification
- Component qualifications
- Metro, long-haul, and very-longhaul network

Three Test Applications in One

The optical broadband source module qualifies DWDM components with physical layer testing including measurements for chromatic dispersion (CD) (using the referenced phase shift method), polarization mode dispersion (PMD) (using the fixed analyzer method), and attenuation profile (AP) that are required for verifying high-speed and full-band DWDM transmission. Having three test applications in a single product minimizes both capital expenses and the number of instruments technicians must carry into the field.

The easy-to-use T-BERD/MTS user interface gives field technicians:

- One module for multiple function
  - Source for CD phase shift
  - Source for AP with in-line isolator
  - Source for PMD
- Direct access to select one of three test functions.

Field-Dedicated HighPerformance Solution

The optical broadband source module offers the highest level of integration and ruggedness. Combined with the ODM plug-in module the complete solution is ready for any field measurement condition. Its size and weight are ideal for outside plant testing and its suite of personal computer interfaces and remote control capability are best fit for component testing

- An all-in-one remote solution when combined with an OTDR
- Wide 1260 to 1640 nm wavelength range
- High dynamic range when combined with the ODM module (up to 45 dB)
- Fiber characterization and component testing capability

Specifications (Typical at 25°C)

Optical interfaces	
Applicable fiber	SMF 9/125 µm
Interchangeable optical connectors	FC, SC, DIN, ST, LC
Wavelength range	
E81BBS2A	1260 to 1640 nm
Minimum spectral density	–40 dBm/0.1 nm
Output power	>8 dBm
Laser safety Class	3B (FDA21CFR)
Physical	
Weight	500 g (1.1 lb)
Dimensions (w x h x d)	213 x 124 x 32 mm (8.38 x 4.88 x 1.26 in)

Ordering Information

Broadband source	
Description	**Part Number**
Broadband Source module for CD/PMD/AP (1260 to 1640 nm)	E81BBS2A
Universal optical connectors	
EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCFC, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, EUNIAPCLC	

Quality Testing

Our products undergo rigorous quality testing before shipment to ensure their excellence.

Packaging

We meticulously package our products to guarantee they arrive at their destination in pristine condition.

Transport

We prioritize swift transportation, minimizing your waiting time to receive your order promptly.

Delivery

Our delivery service is designed to bring the products you've ordered directly to your doorstep, tailored to your specific preferences.

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