



Optical Broadband Source (BBS) Module



Applications

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



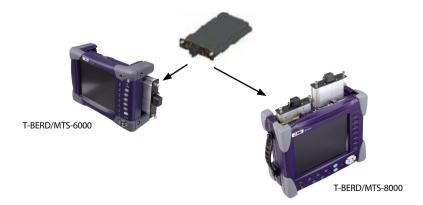
Key Benefits

- One unique solution for measuring CD, PMD, and AP
 - Shock-proof and vibration-proof instrument has no moving parts
 - Works with both the T-BERD/MTS-6000 and T-BERD/ MTS-8000 platforms
 - Tests high-performance components

The JDSU T-BERD/MTS-8000 and T-BERD/MTS-6000 platforms equipped with the Optical Broadband Source (BBS) module deliver 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.

Today's fiber networks must meet exacting performance requirements to withstand the demands of widespread broadband access technology deployment. 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.

At the test level, the growing demand for 10 Gigabit Ethernet (GigE) and the emergence of 40G requires that more and more fiber links be fully characterized. With the T-BERD/MTS-8000 test platforms, JDSU has developed ideal, all-inone solutions for these challenges. The T-BERD/MTS platforms combine small, highly integrated plug-in modules, battery operation, and rugged, drop-tested housing. Its weather-resistant design and long battery life are ideally suited for use in the field and its modularity allows for field upgrades to support new testing requirements. The T-BERD/MTS is easily upgradable with technologies and advanced options that support the changing needs of field technicians.





Three Test Applications in One

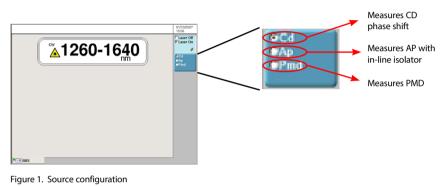
The optical broadband source module gualifies DWDM components with physical layer testing including measurements for chromatic dispersion (CD) (using the referenced phase shift method), polarization mode dispersion (PMD) (using the fixed analyzer method), and attenuation profile (AP) that are required for verifying highspeed 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 functions

Specifications (Typical at 25°C)

- direct access to select one of three test functions.



Field-Dedicated High-Performance Solution

Housed in a rugged T-BERD/MTS mainframe, 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

Optical interface	5	Minimum spectral density	-40 dBm/0.1 nm		
Applicable fiber	SMF 9/125 μm	Output power	>8 dBm		
••	nnectors FC, SC, DIN, ST, LC	Laser safety	Class 3B (FDA21CFR)		
		Physical			
Wavelength rang	ge	Weight	500 g (1.1 lb)		
E81BBS2A	1260 to 1640 nm	Dimensions (w x h x d)	213 x 124 x 32 mm (8.38 x 4.88 x 1.26 in)		
Ordering Inform	mation				
Ordering Infor		Universal optical co	nnectors		

For more information on test adapters, cables, and fiber-optic couplers, refer to the separate data sheet "JDSU Fiber Optic Test Adapters and Cables."

Test & Measurement Regional Sales

	NORTH AMERICA TOLL FREE: 1 855 ASK-JDSU 1 855 275-5378	LATIN AMERICA TEL: +1 954 688 5660 FAX: +1 954 345 4668	ASIA PACIFIC TEL: +852 2892 0990 FAX: +852 2892 0770	EMEA TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	www.jdsu.com/test	
Product specifications and descriptions in this document subject to change without notice. © 2013 JDS Uniphase Corporation 30149366 001 0313 MTSTBBBSMOD.DS.FOP.TM.AE Ma						