

### KEY FEATURES

- Mandrel-free RL testing
- 4 Single-mode lasers built-in
- Available for single-mode and multimode
- EF compliant for multimode
- Bidirectional or unidirectional testing

### APPLICATIONS

- Passive optical components design and validation
- Patchcord and cable assembly certification
- Compliance testing

### COMPLIANCE

- Conforms to GR-326-CORE, GR-1435-CORE, GR-910-CORE, GR-1209-CORE, GR-2866-CORE, Verizon FOC

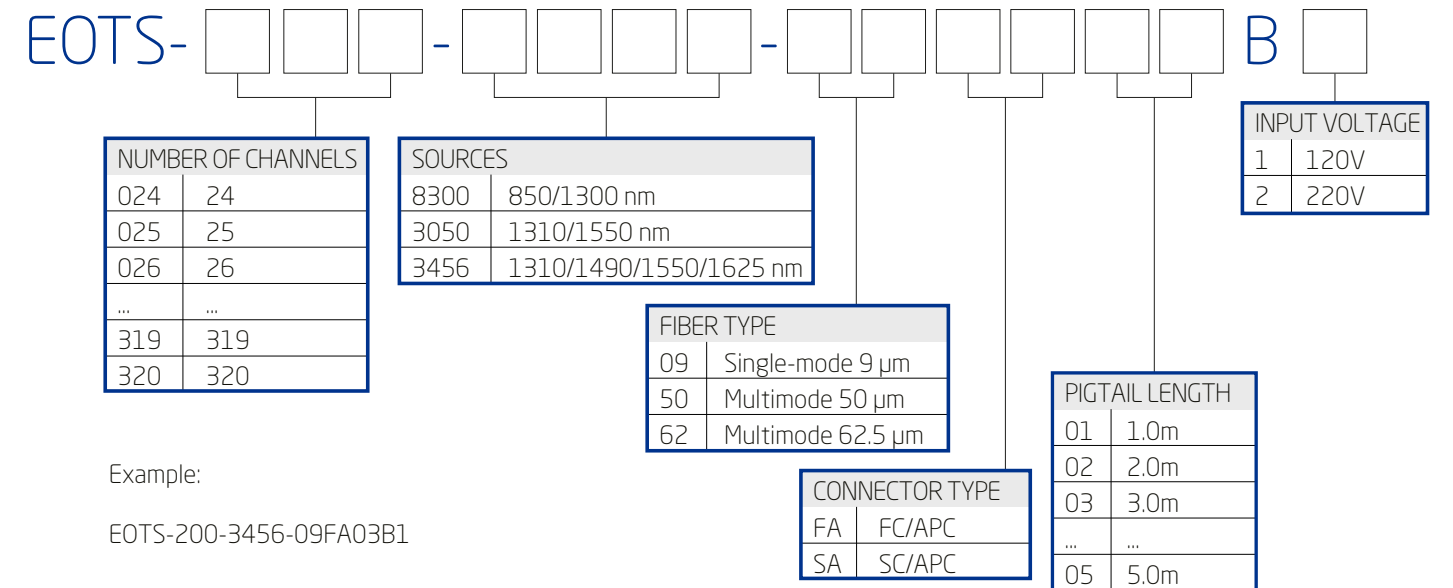
### IN THE SYSTEM

- 19" Rackmount cabinet
- RL1 Automated Return Loss Meter
- Dual SX1 switches
- Computer and display
- 1500 VA UPS
- EOTS software

### Product Description

Built upon the same technology as the breakthrough RL1 Automated Return Loss Meter and SX1 Optical Switches the EOTS Environmental Optical Test System provides a fully integrated solution for long-term testing of optical components. With its capability to measure changes in Insertion Loss (IL) and mandrel-free Return Loss (RL) of up to 320 channels, the EOTS is the perfect solution to perform compliance testing of components being stressed in environmental simulations.

### Ordering Scheme



### Self-calibration

The EOTS Environmental Test System does not need to be sent back to JGR for annual calibration. The self-calibration feature built inside the RL1 provides step-by-step instructions and generates a calibration report thereby minimizing down-time and assuring measurement reliability.

## Optical/Electrical Specifications

Parameter	Specification	
	Single-mode	Multi-mode
Fiber Type (µm)	9/125	50/125 and/or 62.5/125
Encircled Flux Standard	N/A	Conforms to IEC 61280-4-1
Operating Wavelengths (nm)	1310, 1490, 1550 or 1625	850, 1300
Maximum Number of Channels	320 Input / 320 Output	
Insertion Loss Repeatability (dB) <sup>1</sup>	± 0.04	± 0.04
Return Loss Dynamic Range (dB)	30-80	10-50
Return Loss Repeatability (dB) <sup>1</sup>	± 0.1 (30 to 65)	± 0.5 (<40)
	± 0.25 (65 to 70)	± 2.0 (>40)
	± 0.5 (>70)	
Power Consumption (VA)	~ 400	
Power Backup <sup>2</sup>	5 hours	
Computer Control	Core i5, 8GB RAM and 2x 1TB hard drives in RAID 1 configuration for full data redundancy	

## Notes:

<sup>1</sup> in controlled lab environment as defined by GR-326: 21 to 25°C, RH 0 to 75%

<sup>2</sup> with included TrippLite 1500VA Uninterruptible Power Supply

## Mechanical/Environmental Specifications

Parameter	Specification
Mechanical Configuration	All equipment is installed in a single bay 28U 19" rack with removable covers and doors. Cabinet includes casters and levelers, front & rear doors to access instruments. Rear panel pigtails.
Cabinet Dimensions W x H x D (cm)	61 x 177 x 84
Shipping Crate Dimensions W x H x D (cm)	75 x 192 x 105
System Weight (kg)	~ 180
Total Shipment Weight (kg)	250
Operating Temperature (°C)	0 to 40
Storage Temperature (°C)	-40 to 60
Humidity (Non-condensing)	Maximum 80% RH from 0 to 40°C

