



### BR5 BACKREFLECTION METER

The BR5 Backreflection Meter is a user-friendly measurement device, developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. The BR5 features up to four built-in laser sources from within the 850-1625 nm wavelength range (depending on fiber type).

An intuitive display and keypad, with one-button access to BR and IL modes, simplifies the collection and management of measurement data. Available in single-mode and multimode, the BR5 is ideal for measurements of connectors, components, and systems.

The BR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically  $\pm 0.4$  dB and measurement sensitivity is to -75 dB. Insertion loss relative accuracy is  $\pm 0.05$  dB.

### SPECIFICATIONS

Parameter	Specification	
	Single-mode	Multimode
Fiber Type	(9/125 $\mu\text{m}$ )	(50/125 or 62.5/125 $\mu\text{m}$ )
Operating Wavelengths	1310, 1490, 1550, 1625, $\pm 10$ nm	850, 1310, $\pm 20$ nm
Backreflection Range	0 to -75 dB	0 to -40 dB
Backreflection Accuracy <sup>1</sup>	$\pm 0.4$ dB	$\pm 0.7$ dB
Detector Type	2 mm InGaAs or 5mm Ge	3 mm InGaAs or 5mm Ge
Power Range	0 to -80 dBm (InGaAs) 0 to -60 dBm (Ge)	
Absolute Power Accuracy <sup>2</sup>	$\pm 0.25$ dB	
Relative Power Accuracy	$\pm 0.05$ dB (< 5 dB loss) $\pm 0.15$ dB (> 5 dB loss)	$\pm 0.15$ dB
Remote Interface	RS232 and GPIB	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption	30 VA maximum	
Display	16 character LCD	

1. Add 0.1dB to the spec for every 1dB below -60dB.  
2. Measured at -10 dBm.

### Mechanical/Environmental Specifications

Parameter	Specification
Dimensions (W x H x D)	26 x 11 x 26 cm
Weight	4 kg
Operating Temperature	0 to 40 °C
Storage Temperature	-40 to 70 °C
Humidity	Maximum 95% RH from 0 to 40 °C

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### ORDERING INFORMATION

Choose one characteristic from each column and assemble the part number. Up to four lasers may be selected for the single-mode version. The standard multimode version contains two lasers at 850 and 1310 nm. Other wavelengths are available upon request.

Single-Mode Version

BR5      09FA

LASER 1		LASER 3		DETECTOR TYPE	
No Laser	0	No Laser	0	2 mm InGaAs	2
1310 nm	3	1550 nm	5	5 mm Ge	5

  

LASER 2		LASER 4	
No Laser	0	No Laser	0
1490 nm	4	1625 nm	6

Multimode Version

BR58300    FA

DETECTOR TYPE		FIBER TYPE	
3 mm InGaAs	3	50/125	50
5 mm Ge	5	62.5/125	62

### CONTACT US

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