Return loss module specifications with internal source

(when used with external sources the specifications of 81610A return loss module apply) All modules require angled contact (8°) at input and output connectors

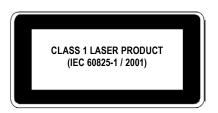
	81611A	81612A	81613A
Source	Fabry-Perot Laser (internal)		
Output Power	typ. – 4dBm		
Center wavelength [1]	1310 nm ±20 nm	1550 nm ±20 nm	1310/1550 nm
	typ.	typ.	±20 nm typ.
Sensor Element	InGaAs		
Fiber Type	Standard single-mode 9 / 125 μm		
Dynamic Range	75 dB		
Relative uncertainty of	User calibration [2]		Plug and play [3]
Return Loss (RL)			
• RL ≤55 dB • RL ≤60 dB • RL ≤65 dB • RL ≤70 dB • RL ≤75 dB	<pre><±0.5 dB (typ. <± <±0.6 dB (typ. <± <±0.8 dB (typ. <± <±1.9 dB (typ. <± typ. <±2.0 dB [4]</pre>	:0.4 dB) typ :0.5 dB)	$0. < \pm 0.6 \text{ dB}$ $0. < \pm 1.5 \text{ dB}$
Total uncertainty	add ±0.2 dB	i	add typ. ±0.2 dB
Dimensions (H x W x D)	75 mm x 32 mm x 335 mm (2.8" x 1.3" x 13.2")		
Weight			
Recommended Recalibration	2 years		
period			
Operating temperature	10 to 40°C		
Humidity	Non-condensing		
Warm-up time [5]	20 minutes		

^[1] At 25oC constant temperature, coherence control on, warm-up time after laser turn on >5 min.

Laser Safety Information

The above products are classified as Class 1 according to IEC 60825-1 (2001).

All laser sources comply with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated 2001-July-26.



^{|2|} Averaging time 1s, calibration prior to measurement, constant temperature, coherence control on, warm-up time after laser turn on >5 min, length of measurement patch cord ≤2m, angled connector in optimal optical condition. Reference cable 81610CC used for total uncertainty.

 $^{^{[3]}}$ Use defaults settings (no user calibration necessary): length of measurement patch cord $\leq 2m,$ return loss of connectors $\geq \! 70$ dB.

^[4] For measurements performed immediately after calibration.

^[5] Warm-uptime 60 min, if previously not stored at the same temperature.