

Switch

A 1:2 optical fiber switch (SW12) can be installed (in addition to the built-in on/off switch) to allow the instrument to select one of two inputs or outputs. If a switch is installed, the 5V output is not externally available.

Analog Option

Attenuators made with this option are designed for use in demanding applications such as multi-channel AM systems. They have <<-60 dB backreflection and extremely smooth variation of attenuation with wavelength. The option is available for the HA9503 version only.

Specifications

				HA9_3		HA9_8		
Optical (model specific)	Wavelength Range			1200 - 1700		750 - 1700		nm
	Attenuation Range			1200 - 1700 nm	100 dB	750 - 1500 nm	100 dB	
						1500 - 1700 nm	60 dB	
	Insertion Loss ^{1,2}			≤ 2.0 (SM) ≤ 2.2 (MM, NA = 0.2) ≤ 2.9 (MM, NA = 0.3)		≤ 5.0 ³ (SM) ≤ 3.2 ³ (MM, NA = 0.2) ≤ 3.9 ³ (MM, NA = 0.3)		dB
	Attenuation Accuracy	Entire Range		±0.15 dB or ±0.015 dB/dB ⁴		±0.15 dB or ±0.015 dB/dB ⁴		
1280 - 1340 nm		±0.1 or ±0.004 dB/dB ⁴						
1470 - 1550 nm		±0.1 or ±0.004 dB/dB ⁴						
Optical (common)	Attenuation Settability (@ 1300 nm)			0.01				dB
	Attenuation Repeatability ⁵			±0.015				dB
	Backreflection ^{1,2}		Code	SM	FIBER MM (NA = 0.2)	MM (NA = 0.3)		dB
		low	L	<-45	<-40	<-35		
		analog	S	<-60	-	-		
	Maximum Optical Input Power			200	200	300		mW
	Recalibration Period			Not required				
	Polarization Sensitivity			<0.1 P - P across the attenuation range				dB
	Attenuation change rate			≤ 2.5 sec, 0 to 100 dB				
	ON/OFF Switch			>110				dB
ON/OFF Switch speed			<20				msec	
Environmental	Operational Temperature Range			0 to 40				° C
	Storage Temperature Range			- 40 to + 60				° C
	Humidity Range			95% up to 40° C decreasing at 5% per °C from 40° C to 60° C				
Mechanical	Dimensions (L x W x H)			35.5 x 21.2 x 8.9				cm
	Weight			3.75				kg

Notes: 1. Measured at 23°C with a laser source.

2. Not including connectors, switch or coupler (if installed).

3. Highest at 750 and 1600 nm, will be 1 dB less at 980 nm.

4. Whichever is greater.

5. At constant temperature and wavelength.

JDS FITEL

Ordering Information

HA9 ☐ ☐ ☐ - ☐ ☐ ☐ ☐

Fiber Type	Code
50/125	0
62.5/125	1
85/125	2
100/140	3
9/125	5
Special(specify)	Z

Options	Code
None	0
AC11 50/50 Splitter	1
SW12 1:2 Switch	8
AC19 10/90 Splitter	9

Model	Code
1200 - 1700 range	3
750 - 1700 range	8

Port Type	Code
pigtails front panel	1
bulkheads front panel	2

Backreflection*	Code
low	L
analog (HA9503 only)	S

* Excluding connectors.

Connector Type*	Code
no connector	NC
FC	FC
FC/PC	FP
FC/APC	FA
Biconic	BC
ST	ST
ST/PC	SP
D4	D4

*For other connector types,
please consult factory.

Information subject to change. **JDS FITEL** reserves the right without notice, to make changes in equipment design or components as progress in engineering or manufacturing methods may warrant.

HA90593.1
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