

Specifications and Characteristics

Table 1-1. Performance Specifications

Performance Specifications	Standard (FC/PC connectors) ¹	Option 026 (fiber pigtails)
Operating wavelength range	1250 to 1600 nm	1250 to 1600 nm
Insertion loss		
Overall insertion loss	<2.0 dB ²	<1.5 dB ³
Variation with paddle position	<±0.02 dB ²	<±0.002 dB ³
Variation with wavelength (1250–1600 nm)	≤±0.3 dB	≤±0.3 dB
Variation with wavelength (any 100 nm range)	≤+0.1 dB	≤+0.1 dB
Optical return loss	35 dB ²	55 dB ³
Polarization extinction ratio	>40 dB ⁴	>40 dB ⁴
Paddle adjustment		
Paddle angle resolution	0.13 ^o 5	0.13 ^o 5
Paddle angular repeatability	0.13 ^o 5	0.13 ^o 5
Settling time	<1 sec	<1 sec
Number of scan rates	8	8
Maximum paddle rotation rate	360 ^o /sec	360 ^o /sec
Number of SAW/FPGA memory registers	9	9
Maximum allowable input power	+23 dBm	+23 dBm
Operating Specifications		
Operating temperature	0 ^o C to 55 ^o C	
Non-operating, storage temperature	–40 ^o C to +70 ^o C	
Humidity	15% to 95%, non-condensing	
Power requirements	47 to 63 Hz	
	90 to 264 Vrms	
Power consumption	60 W max	
Physical Specifications		
Weight	4.5 kg (10 lb)	
Dimensions (H × W × D)	10 × 21.3 × 36 cm 13.3 × 8.4 × 4.2 in	

1 Also applies to Option 010 when using FC/PC connectors.

2 Characteristic, non-warranted performance.

3 When the Agilent 17896A is spliced into the measurement system.

4 Extinction ratio refers only to the polarized portion of the optical signal.

5 Any position.