Specifications Functions Measurement principle: Using the conversion characteristics between optical frequency and intensity in the built-in optical-fiber-type Mach-Zehnder interferometer, the instrument converts the dynamic chirp (optical frequency modulation) into a change in optical power FM. By controlling the discrimination point of the interferometer, FM is either added to or subtracted from the intensity IM of the optical input signal. Polarization compensation: Automatic polarization compensation by the internal optical-fiber-type polarization controller **Built-in optical amplifier** with automatic gain

adjustment option (OPT7607+10):

Available as an option, the Q7607 has a built-in optical amplifier with automatic gain adjustment. The optical output power is approx.

0 dBm, regardless of the optical input

Performance Specifications*13

Wavelength

measurement range: Q7607; 1510 to 1610 nm

Q7607+10; 1530 to 1610 nm Optical input power range: -10 to 10 dBm

Frequency conversion accuracy:

within ±15%

FM demodulation

coefficient (50 G/10 G)*2):

P x 0.021/GHz / P x 0.042/GHz

Free Spectral Range (50 G/10 G):

300 GHz ±15 GHz / 150 GHz ±15 GHz

Demodulation band width (50 G/10 G)*3):

100 Hz to 100 GHz / 100 Hz to 50 GHz

Deviation of demodulation

frequency (50 G/10 G):

135 GHzpp or less / 65 GHzpp or less Q7607; 13 dB or less

Insertion loss: Optical output power:

Q7607+10; -3 to 0 dBm*4)

Input light polarization compensation:

Automatically controlled

Input/Output Specifications

Optical input/output: FC/PC connector

(changeable to SC or ST type) In accordance with IEEE488-1978 Optical remote interlock: BNC connector (for OPT7607+10/10A)

General Specifications

Operating environment: Ambient temperature; 0 to +40°C

Relative humidity; 85% max.

(no condensation)

Storage environment: Ambient temperature; -20 to +60°C

Relative humidity; 90% max.

(no condensation)

AC100-120 V, AC220-240 V, 50/60 Hz, Power supply:

100 VA or less

Automatic switching between the 100

and 200 V systems

Dimensions: Approx. 132 (H) x 424 (W) x 500 (D) mm

(Approx. 5.2 (H) x 16.7 (W) x 19.7 (D) in.)

Mass: 13 kg (28.7 lbs) or less

Options		
Built-in Optical Amplifier:		OPT7607+10
Retrofit Optical Amplifier:		OPT7607+10A
Accessory (supplied v	vith the system)	
Chirp Measurement		
Software:		PQ76000402-CD
Separately Sold Acces	ssories	
FC connector adapter:		A08161
SC connector adapter:		A08162
ST connector adapter:		A08163
Rack mount kit:	EIA, with Front handles	A02708
	JIS, with Front handles	A02709
	EIA, without Front handle	s A02718
	IIS without Front handles	Δ02710

^{*1)} At 23 ±5°C

Please be sure to read the product manual thoroughly before using the products. Specifications may change without notification.

^{*2)} P: optical average power

^{*3) 100} MHz as standard, 1 dB down

^{*4)} Total output of optical power