< Q8383 >

Wavelength	Measurement range		0.55 to 1.75 μm
	Resolution	Setting	0.1 nm, 0.2 nm, 0.5 nm, 1.0 nm, 2.0 nm, 5.0 nm
		Accuracy (*1)	±3% or less/0.1 nm to 0.2 nm, ±2% or less/0.5 nm to 5.0 nm (23°C±5°C)
	Accuracy		±0.2 nm (23°C±5°C) (*1), ±0.5 nm (23°C±5°C), ±1.0 nm (10°C to 40°C)
	Repeatability		0.1 nm or less (1-minute repeat sweep)
Level	Measurement range (input sensitivity)		–92 to +20 dBm (1.2 to 1.6 μm) (23°C±5°C) –85 to +20 dBm (1.0 to 1.65 μm) –70 to +20 dBm (0.85 to 1.7 μm) –55 to +20 dBm (0.55 to 1.75 μm)
	Polarization dependency		±0.05dB or less (23°C±5°C)
	Reproducibility at connection insertion		±0.02dB or less/(23°C±5°C, at nonpolarization input by SM fiber)
	Repeatability		±0.02dB or less/(*2) (23°C±5°C)
	Accuracy (*3)		±0.4dB or less/(*1) (23°C±5°C)
	Linearity		±0.05 dB (23°C±5°C at wavelength 1.2 to 1.65 μm range –50 to –10 dBm)
	Scale		0.2, 0.5, 1.0, 2.0, 5.0, 10.0 dB/DIV and LINEAR
	Dynamic range (*4)		55 dB or more (±0.5 nm level difference from peak wavelength) 65 dB or more (±1.0 nm level difference from peak wavelength)
Sweep	Span		0.1 nm to 120 nm/ DIV and 0
	Measurement time (*5)		0.8 seconds or less (200 nm span or less) 1.5 seconds or less (500 nm span or less)

(*1): With wavelength from 1.53 μm to 1.57 μm.

(*2): With 20 nm measurement span, 0.2 nm resolution, and 1-minute repeat sweep.

(*3): With -30 dBm input by SM fiber (CW light) at resolution of 0.5 nm to 5.0 nm. (Including polarization dependency, except for power monitor function)

(*4): With wavelength 1.152 μm, 1.523 μm (0.1 nm resolution) by SM fiber.

(*5):With center waveformlength 1.3 μm or 1.55 μm, normal mode, 1 averaging.

Pulse light measurement	Peak hole mode	Minimum light pulse width : 10 ns (Recommended light pulse width : 30 μsec or more) Pulse light repetition frequency : 0.1 Hz or more Gate time : 1 ms to 10 s	
	External synchronization mode	Synchronization signal input level : 74AC (Hi : 3.5V, Lo : 1.5V) positive logic Synchronization signal pulse width : 10 ns (Recommened light pulse width : 30 μs or more) Pulse light repetition frequency : DC to 100 MHz or more)	
Processing function	Memory function	Internal RAM	Measurement data : 33, Measurement condition : 10 (battery backup)
		Internal floppy drive	In conformance with MS-DOS format (2DD/ 2HD floppy disks) Format capacity : 720 KB (111), 1.2 MB (191)
	Display	Superimpose display, dual screen (up/ down) display, 3-dimensional cursor display function	
	Operation/analysis	• Automatic optimum measurement condition setting • Automatic peak search • Normalization (LOSS/TRANS) • Power monitor function (with trend-chart) • Spectral width measurement • Averaging • Optical amplifier NF measurement function	
Input/ output	Input connector	FC type	
	Data output	GP-IB standard, internal printer (printing speed : 8 seconds or less), direct plotter output (*6)	
General specifications	Operation environment	Temperature +10°C to +40°C, relative humidity 85% or less (no condensation)	
	Shelf environment	Temperature –10°C to +50°C, relative humidity 90% or less (no condensation)	
	Power supply	100 VAC to 240 VAC, 50 Hz/60 Hz, 180 VA or less	
	External dimension	Approx. 424 (W) × 221 (H) × 450 (D) mm	
	Mass	30 kg or less	

(*6): Connectable plotter
R9833 (Advantest-made)
7475A, 7440A, 7470A (HP-made)