## **Optical Measuring Instruments and Optical Device Test Systems**

High-Accuracy, High-Sensitivity and High-Speed Optical Power Meter

## Q8221

					8		*		*	
Mod		208	Q822	233	Q82	32	Q822	227	Q822	
roduct Typ	P	High-Sensitivity	Long Wavelength High-Sensitivity		ensitivity Low Polarization				Long Wavelength High-Sensitivity High-Power	
ength Rang	Wavele	1700 nm	800 to			50 nm	900 to 16			
ower Rang				0 dBm	-94 to +1			+27 dBm	-80 to +	
	Range* <sup>2</sup>	CHOP	CW	CHOP	CW	CHOP	CW	CHOP	CW	
	Max.	20 mW	20 mW	20 mW	20 mW	20 mW	20 mW	2000 mW	2000 mW	
	Min.	200 nW	200 pW	200 nW	200 pW	200 nW	200 pW	2000 nW	20 nW	
sor Elemei	Sen				iaAs					
0.11					bled					
Optica Input Form	Beam			Not Possible						
	Fiber	2.5mm, NA ≤0.21	Core Diameter ≤62	Core Diameter ≤10 μm, NA ≤0.19 PC Rubbed Connector			Core Diameter $\leq 10 \ \mu m$ , NA $\leq 0.19$			
		Rubbed Connectors	PC APC, and Slanted I					d Rubbed Connectors	PC, APC, and Slante	
Acouroou*	Measurement	СНОР	CW	СНОР	CW	СНОР	CW	СНОР	CW	
ACCUIACY	WedSuremen	±3.5%	±2.5%	±8.5%	±7.5%	±3.5%		±3.5%	±2.5%	
onath	At Calibration Wavel		±2.5%   1300	±0.3 /0	±1.3 /0		±2.5%	±3.3 /6	±2.3%	
engui	AL GAIIDIALIOIT WAVE			1550 nm 1 mW						
		1 mW 0 to 40°C				40°C				
		СНОР	CW 0104	СНОР	CW	CHOP	CW	СНОР	CW	
range	At Wide Wavelength	±5.5%	±4.5%	±15.5%	±14.5%	±5.5%	±4.5%	±5.5%	±4.5%	
rungo	At this wavelength		1000 to 1		2111070	600 nm		1 1	1.070	
			1 m				1 r			
			0 to 4			40°C				
Lineari	-			±0.4 pW	±0.5%		0.0	±10 pW	+0.5%	
	(At Average T	-72 to +10 dBm						-58 to +27 dBm		
	、 ů			40°C	0 to			40°C		
	-			±0.4 pW	±1.0%			±10 pW	±1.0%	
		-75 to +10 dBm						-61 to +27 dBm		
				0 to 40°C			0 to 40°C			
Nois	At Averaging Time : 1 sec.			dBm	-94			-80 dBm		
Level* <sup>3</sup>	Without Averaging*4									
	SLOW(approx. 9/sec.)			-93 dBm				-79 dBm		
	FS-1 (approx. 30/sec.)	Bm	-91 d	-90 dBm				-76 dBm		
	FS-2 (approx. 50/sec.)		-90 d	-88 dBm				-70 dBm		
	FS-3 (approx. 100/sec.)		-87 d	-85 dBm				-67 dBm		
Polarization Dependence		0.02 dBp-p or less		0.005 dBp-p or less		0.003 dBp-p or less		0.05 dBp-p or less		
	(at wavelengt	115 dBp-p)	(Typical 0.0			· · · · · · · · · · · · · · · · · · ·				
Return Loss	With APC, or slanted Rubbed Connector	r more	50 dB or	_			60 dB or more			
	With high return	r more	43 dB or					45 dB or more		
	loss adaptor*6	45 dB)	(Typical	_			al 47 dB)	(Туріса		
	With PC rubbed connector	14 dB	approx.	14 dB 45 dB or more*6			approx			
ns and Mas	Dimensior	0 Q8221	Plugs into	Approx. 60 (W) × 43 (H) × 135(D) mm Approx. 60 (W) × 43 (H) × 166 (D) mm   590 g or less 660 g or less			Approx. 60 (W) $\times$ 43 (H) $\times$ 135 (D) mm 500 g or less			
FC Connecto			ard Accessory)	A08161(Stand		A08340 (Standard Accessory)				
to Adapte	SC	A08162					3338	A08		
ST Corr			163	39 A			A08			
spondence	MU		370					A08		
Li	Plug-in		Jack-type Possible					-		
	MT Adaptor (Mating to 12-pin SMF)	_								
High retu	FC	328	A083	Usage of high return loss adaptors are not possible			V08336			
loss adapte	SC		A003 A083			Usage of high return loss a Usage of high return loss a		A08328 A08329		
uuupli			A083			Usage of high return loss Usage of high return loss				
Corre			A003							
Corre soondence List	Plua-in	331	7083 2083	ble	adaptors are not nossi	age of high return loss	110		A (1)	
Corre spondence List onnection 1	Plug-in		A083 Q82202 or Q8220	ble	adaptors are not possi	age of high return loss	Q82203 Required	8331	AU	

\*<sup>1</sup> Calibrations of 082215, 082216 and 082208 are also available as options (0PT82215+25, 0PT82216+25, 0PT82208+25). Measurement accuracy Value for the option sensors are the same as in the chart above at 1550 nm calibration wavelength. \*<sup>8</sup> When master grade A dispersion shift fiber is used. \*<sup>8</sup> Connection loss with single mode fiber is 0.07 dB (typical).