

# AQ2200 series Optical Return loss Module

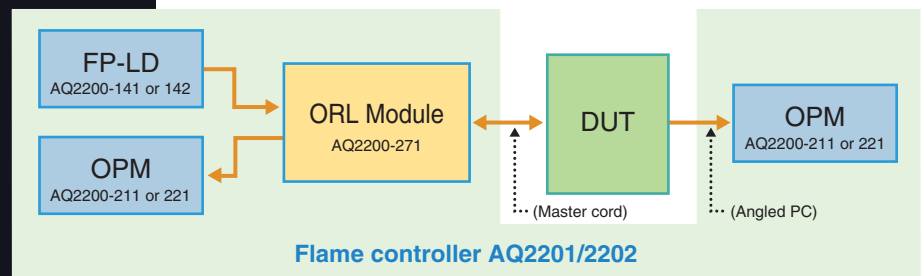
## AQ2200-271 ORL Module



### Display Example

| ORL APPLICATION      |   |   |   |   |   |   |   |   | Avg         |
|----------------------|---|---|---|---|---|---|---|---|-------------|
| 1                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Wave length |
| ORL 39.3 dB          |   |   |   |   |   |   |   |   |             |
| IL 1.77 dB           |   |   |   |   |   |   |   |   |             |
| Ref 14.7 dB          |   |   |   |   |   |   |   |   |             |
| Average 1 s          |   |   |   |   |   |   |   |   |             |
| Wavelength 1310.0 nm |   |   |   |   |   |   |   |   |             |
| Modulation CW        |   |   |   |   |   |   |   |   | More 3/3    |

### System Configuration



## Optical Return Loss (ORL) and Insertion Loss (IL) measurements of Optical Component.

- Simultaneous measurement for both ORL and IL
- High Dynamic range : 65 dB or more
- Measurement parameter can be preset (up to 9 sets)

### Specifications

|                                  |              |                         |                 |
|----------------------------------|--------------|-------------------------|-----------------|
| System Configuration             | Light Source | AQ2200-141 or 142       |                 |
|                                  | Sensor       | AQ2200-211              | AQ2200-221      |
| Wavelength Range                 |              | 1310 ±30 nm/1550 ±30 nm |                 |
| Measurement Dynamic Range        |              | 65 dB or more*1         | 55 dB or more*1 |
| Relative Uncertainty             | RL ≤ 50 dB   | ±0.3 dB*2               | ±0.7 dB*2       |
|                                  | RL ≤ 60 dB   | ±0.6 dB*2               | —               |
| Applicable Fiber                 |              | SMF                     |                 |
| Connector type (To Light Source) |              | FC/PC                   |                 |
| Connector type (To DUT)          |              | SC/Angled PC            |                 |

\*1: 23 ±2°C, Fresnel reflection reference, using specified master cord, after calibration.

\*2: ±2 σ

### Ordering Information

| Model  | Spec Code | Specs                 |
|--------|-----------|-----------------------|
| 735185 | —         | AQ2200-271 ORL Module |
|        | -SA       | Optical Fiber: SMF    |

### Option

- ORL Master cord

# AQ2200 series Variable Optical Attenuator

## AQ2200-311A ATTN Module



**A Small, lightweight variable optical attenuator providing low insertion loss**

- Compatible with SMF (10/125) or MMF (62.5/125)
- Low insertion loss: 1.0 dB (typ.)
- Monitor output (option)

### Specifications

| Item                    | Product Specs                |                              |
|-------------------------|------------------------------|------------------------------|
|                         | 1200 to 1700 nm              | 800 to 1370 nm               |
| Wavelength range        | 1200 to 1700 nm              | 800 to 1370 nm               |
| Insertion loss          | 1.0 dB (typ.) 1.6 dB or less |                              |
| Maximum attenuation     | 60 dB                        | 45 dB                        |
| Attenuation accuracy    | ±0.1 dB or less              |                              |
| Repeatability           | ±0.01 dB or less             |                              |
| Optical return loss     | 45 dB or more (PC connector) | 20 dB or more (PC connector) |
| Polarization dependence | 0.1 dB or less               | ---                          |
| Maximum input power     | +23 dBm                      |                              |
| Shutter isolation       | 90 dB or more                |                              |
| Applicable fiber        | SMF (ITU-T G652)             | MMF (62.5/125) (IEC 60793-2) |
| Optical connector       | FC/PC or SC/PC               |                              |
| Monitor output          | -13 dB (typ.)                |                              |

### Ordering Information

| Model  | Spec Code | Specs                         |
|--------|-----------|-------------------------------|
| 735131 | —         | AQ2200-311A ATTN Module       |
|        | -SA       | Optical Fiber: SMF            |
|        | -G6       | Optical Fiber: MMF (62.5/125) |
|        | -FCC      | Optical Connector: FC/PC      |
|        | -SCC      | Optical Connector: SC/PC      |
|        | /MON      | Monitor Port                  |

### Associated Products

**AQ2201 Frame controller**  
 Model: 810518900  
 Number of slot: 3  
 Display unit: Color LCD,  
 320×240 pixels  
 Interface: GP-IB, Ethernet, USB



**AQ2202 Frame controller**  
 Model: 810518920  
 Number of slot: 9  
 Display unit: Color LCD,  
 320×240 pixels  
 Interface: GP-IB, Ethernet, USB



#### Note



Pursuant to the Foreign Exchange and Foreign Trade Control Law, Japanese government approval may be required to export this product from Japan.  
 The information presented in this bulletin is subject to change without notice due to performance and quality improvements.