

Specifications

Item	AQ2200-621/AQ2200-622 Specification	Remarks
Storage temperature	-10°C to 50°C, 80% relative humidity or less, with no condensation	
Operating temperature	5°C to 40°C, 80% relative humidity or less, with no condensation	
Wavelength range	AQ2200-621: 1530-1570 nm AQ2200-622: 1290-1330 nm	Note 1
Wavelength stability	Depends on specifications of AQ2200-111 DFB-LD module	
Optical power stability	Depends on specifications of AQ2200-111 DFB-LD module	
LN crystal cut specification	X-cut (The Z-cut option is a factory-installed option.)	Note 1
Optical insertion loss	7 dB typical, 10 dB max	Note 2
Maximum optical input	16 dBm	
Performance-guaranteed optical input range	9-13 dBm	Notes 3 and 5
Extinction ratio	AQ2200-621: 12 dB or higher at 1550 nm AQ2200-622: 12 dB or higher at 1310 nm	Notes 3, 4, and 6
Tr/Tf (20-80%)	25 ps or less	Notes 3 and 4
Electric input amplitude	500 mVpp ± 100 mVpp (AC coupling)	Note 3
Absolute maximum input amplitude	1200 mVpp (AC coupling)	
Electric connector	3.5 mm (jack) equivalent	
Optical connector (LD IN)	SC/PC fixed	
Optical connector (OPT OUT)	SC/PC standard (The FC/PC option is a factory-installed option.)	Note 1
Optical fiber	PMF is used inside the module. (The slow axis and key direction are matched.) PMF or SMF can be connected to the module.	

Note 1: Select one or the other (select when placing order).

Note 2: Modulation loss due to NRZ code (50% mark rate) is included.

Note 3: Use the AQ2200-601 BERT module optical modulator DATA OUT output and AQ2200-111 DFB-LD module (option PMF). For connections between modules, use the specified U link (optional) and PMF (optional). For the waveform observation trigger, use the AQ2200-601 10GHz CLOCK OUT. For optical waveform observation, use SMF with a length of one meter or less.

Note 4: The performance-guaranteed temperature range is 23°C ±5°C.

Note 5: This specifies the range in which Auto-Bias Control is stable.

Note 6: These specifications are for the performance-guaranteed optical input range.

(The specifications are for NRZ and PRBS31 (50% mark ratio) code unless otherwise specified.)

Specifications

Item	AQ2200-631 Specification	Remarks
Storage temperature	-10°C to 50°C, 80% relative humidity or less, with no condensation	
Operating temperature	5°C to 40°C, 80% relative humidity or less, with no condensation	
Wavelength range	1290-1330 nm, 1530-1570 nm	
Minimum optical receiver sensitivity	Less than -15 dBm at 1550 nm Ex=12 dB, 9.953 Gbit/s, PRBS31 Less than -14 dBm at 1310 nm Ex=12 dB, 9.953 Gbit/s, PRBS31	Notes 1 and 2
Maximum optical input	6 dBm peak, 3 dBm average	
Overload	-1 dBm or higher	Notes 1 and 2
Saturation output amplitude	300 mVpp or higher (AC coupling)	Note 1
Electric connector	3.5 mm (jack) equivalent	
Optical connector	SC/PC standard (The FC/PC option is a factory-installed option.)	Note 3
Optical fiber	SMF	

Note 1: Use the AQ2200-601 BERT module optical modulator DATA OUT (PPG setting) and DATA IN (ED setting); the AQ2200-111 DFB-LD module (option PMF); and the AQ2200-621/622 optical modulator. For connections between modules, use the specified U link (optional) and PMF (optional). The specifications are based on a loopback connection using SMF with a length of one meter or less.

Note 2: The performance-guaranteed temperature range is 23°C±5°C.

Note 3: Select one or the other (select when placing order).

(The specifications are for NRZ and PRBS31 (50% mark ratio) code unless otherwise specified.)