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MULTI CHANNEL BOX
MT9812B

CE GPIB

For Adding Light Sources and Optical Sensors for Maximum of 9 Channels



The MT9812B is a mainframe supporting devices such as DFB-LD multiple light sources and multi-channel device evaluation systems. A maximum of 9 MT9810B compatible light sources (DFB-LD, FP-LD, SLD) and optical sensor units can be inserted. In addition to being able to set and verify setting conditions for each unit on the front panel, a remotely controlled measurement system can be supported as GPIB and RS-232C interfaces are standard equipment.

Comparison of the features of MT9810B and MT9812B

	Functions	MT9810B	MT9812B
Main frame	Number of channels	2	9
	Remote functions	√	√
	Date/time setting	√	
	Optical channel selector control	√	
	Laser safety protection mechanism	√	√
Optical sensor	Measuring power display	√	√
	Measuring range	√	Can be set remotely
	BW/interval	√	Can be set remotely
	Averaging	√	Can be set remotely
	Optical modulation mode	√	Can be set remotely
	Max/min value memory	√	
	Measurement condition/measuring value saving	√	
	Relative measurement	√	
	Reference measurement	√	
	Calibration measurement	√	
	Wavelength calibration	√	√
	Unit*	√	√
	Sensor head*	√	
DFB-LD	Attenuation	√	√
	Variable wavelength	√	√
	Modulation frequency	√	Can be set remotely
FP-LD	Attenuation	√	√
	Modulation frequency	√	Can be set remotely
	Changed wavelength (2 wavelength unit)	√	√

* Unit: MU931311B, MU931421B, MU931422B, MU931431A
Sensor head: MA9331A, MA9332A, MA9333A

For product ordering information, see pages 5 – 12
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Specifications

• MT9812B Multi Channel Box

Plug-in units*1	9 max.
Display	7 segments LED, 7 digits (sign: 1 digit, numerical value: 6 digits)
Remote control	GPIB, RS-232C
Laser safety mechanism	Remote inter-lock, optical output control (key control)
Environmental conditions	Operating temperature/humidity*2: 0˚ to 40˚C/≤90% (no condensation) Storage temperature: –30˚ to +71˚C
Power	85 to 132/170 to 250 Vac, 47.5 to 63 Hz, ≤250 VA
Dimensions and mass	426 (W) x 133 (H) x 451 (D) mm, ≤9 kg (without units)
EMC	EN61326: 1997/A1, 1998 (Class A) EN61000-3-2: 1995/A2, 1998 (Class D) EN61326: 1997/A1, 1998 (Annex A)
LVD	EN610101-1: 1993/A2, 1995 (Installation Category Ⅱ, Pollution degree 2)

∗1: Only one MU951001A can be installed into MT9812B
∗2: Narrowest temperature range of the plug-in units or MT9812B

• DFB-LD light sources

Model	MU952501A/952502A/952503A/952504A/952505A	MU952601A/952602A/952603A/952604A/952605A/952606A
Optical element	DFB-LD	
Applicable optical fiber	SM (ITU-T G.652)	
Specified wavelength range (fp)*1	191.7 to 195.9 THz (1563.86 to 1530.33 nm)	186.3 to 191.6 THz (1609.19 to 1564.68 nm)
Center optical frequency*2	fp ±0.01 THz (approx. ±0.08 nm)	
Spectrum half width*2	≤30 MHz	
Optical output power*2	+10 ±1 dBm	+7 ±1 dBm
Optical power stability	Time stability (short term)*2, *3, *4: ≤±0.005 dB Time stability (long term)*2, *3, *5: ≤±0.02 dB Temperature stability*2, *3, *6: ≤±0.25 dB	Time stability (short term)*2, *3, *4: ≤±0.01 dB Time stability (long term)*2, *3, *5: ≤±0.02 dB Temperature stability*2, *3, *6: ≤±0.25 dB
Center frequency stability	Time stability (short term)*2, *4: ≤±2 GHz (approx. ±0.02 nm) Time stability (long term)*2, *5: ≤±4 GHz (approx. ±0.04 nm)	
Optical frequency tuning	Tuning range: fp ±60 GHz (approx. ±0.48 nm), Step: 1 GHz (approx. 0.01 nm) Accuracy*2: ≤±10 GHz (setting to fp + 60 GHz or fp – 60 GHz, 25˚C)	
Internal modulation	Frequency*2: 270 Hz, 1 kHz, 2 kHz ±0.1% Duty: 50% ±5%, Extinction ratio: ≥13 dB	
Optical output attenuation	0.00 to 6.00 dB (0.01 dB steps), Accuracy: ≤±0.5 dB (at 25˚C when set to 6.00 dB)	
Laser safety mechanism	IEC60825-1: Class 3A, 21CFR1040.10: Class IIIb	
Optical connector	FC-PC, ST, DIN, HMS-10/A, SC*7	
Warm-up time	1 h (after optical output on)	
Environmental conditions	Operating temperature/humidity: +15˚ to +35˚C/≤90% (no condensation); Storage temperature: –25˚ to +71˚C	
Dimensions and mass	41 (W) x 78 (H) x 335 (D) mm, ≤700 g	

Note: Wavelengths in vacuum
∗1: Specify an optical frequency (wavelength) and model name from the ordering information.
∗2: At CW, optical attenuation setting (0.00 dB), center optical frequency (fp) using SM fiber (ITU-T G.652) and FC-PC connector
∗3: When return loss seen from light source side is 40 dB min.
∗4: 5 min at constant temperature (at one point from 20 to 30˚C)
∗5: 1 h at constant temperature
∗6: 8 h at 15˚ to 35˚C
∗7: Specified connector for optical connector option supplied as standard accessory.
If connector not specified, FC-PC (Option 37) supplied as standard.

• FP-LD light sources

Model	MU951301A	MU951501A	MU951001A*1
Optical element	FP-LD		
Fiber	SM fiber (ITU-T G.652)		
Wavelength*2	1310 ±20 nm	1550 ±20 nm	1310/1550 ±20 nm
Spectral half-width*2	≤5 nm	≤10 nm	≤5 nm (1310 nm), ≤10 nm (1550 nm)
Optical output power*2	+7 ±1 dBm		
Optical output power stability	Time stability (short term)*2, *3, *4: ≤±0.002 dB Time stability (long term)*2, *3, *5: ≤±0.02 dB Temperature stability*2, *3, *6: ≤±0.1 dB		Time stability (short term)*2, *3, *4: ≤±0.005 dB Time stability (long term)*2, *3, *5: ≤±0.05 dB Temperature stability*2, *3, *6: ≤±0.15 dB
Internal modulation	Frequency: 270 Hz, 1 kHz, 2 kHz ±0.1%, Duty: 50% ±5%, Extinction ratio: ≥13 dB		
Optical output attenuation	0.00 to 6.00 dB (0.01 dB steps), Accuracy: ≤±0.5 dB (at 25˚C when set to 6.00 dB)		
Laser safety mechanism	IEC60825-1: Class 3A, 21CFR1040.10: Class IIIb		
Optical connector	FC-PC, ST, DIN, HMS-10/A, SC*7		

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Model	MU951301A	MU951501A	MU951001A*1
Warm-up time	1 h (after optical output on)		
Environmental conditions	Operating temperature/humidity: 0˚ to +50˚C/≤90% (no condensation); Storage Temperature: –25˚ to +71˚C		
Dimensions and mass	41 (W) x 78 (H) x 335 (D) mm, ≤700 g		

Note: Wavelengths in vacuum
*1: Only one MU951001A can be installed into MT9812B.
*2: At CW, optical attenuation setting (0.00 dB), using SM fiber (ITU-T G.652) and FC-PC connector
*3: When return loss seen from light source side is 40 dB min.
*4: 15 min at constant temperature (at one point from 20 to 30˚C)
*5: 6 h at constant temperature
*6: 8 h at 0˚ to 50˚C
*7: Specified connector for optical connector option supplied as standard accessory. If connector not specified, FC-PC (Option 37) supplied as standard.

• Optical sensors

Model	MU931311A	MU931421A	MU931422A
Element	InGaAs-PD		
Input type	Fiber		
Applicable optical fiber	SM (ITU-T G.652)		9/125 to 62.5/125 µm (NA: ≤0.29)
Wavelength range	800 to 1600 nm	750 to 1700 nm	
Optical power measurement range*1	CW: +10 to –110 dBm MOD: +7 to –90 dBm	CW: +10 to –80 dBm MOD: +7 to –90 dBm	
Noise level*2	≤–93 dBm	≤–73 dBm	
Polarization dependency*3	≤0.02 dB		≤0.05 dB
Return loss*3	≥40 dB		–
Optical power measurement uncertainty	Reference conditions*4: ±2%, Operating conditions*5: ±3.5%		
Linearity*6	±0.05 dB (+10 to 0 dBm), ±0.01 dB ±0.3 pW (–90 to 0 dBm)	±0.05 dB (+10 to 0 dBm), ±0.01 dB ±30 pW (–70 to 0 dBm)	
Calibration factor input	–99.999 to +99.999 dB		
Wavelength sensitivity correction	Measurement wavelength input in 0.01 nm units		
Zero set operation	Automatic zero calibration		
Range select	Auto, manual		
Modulated light reception	CW/MOD selectable, MOD: 270 Hz, 1 kHz, 2 kHz		
Measurement interval*7	1, 10, 20, 50, 100, 200, 500 ms, 1 s to 99 h 59 min 59 s		
Average setting	Off, 2, 5, 10, 20, 50, 100, 200, 500, 1000 times		
Analog output*8	Approx. +2 V		
Bandwidth select*9	Auto, manual Manual setting: 0.1, 1, 10, 100 Hz, 1, 10, 100 kHz (CW mode only)	Auto, manual Manual setting: 0.1, 1, 10, 100 Hz, 1, 10 kHz (CW mode only)	
Optical connector*10	FC-PC, ST, DIN, HMS-10/A, SC		
Environmental conditions	Operating temperature/humidity: 0˚ to +50˚C/≤90% (no condensation); storage: –40˚ to +71˚C		
Dimensions and mass	41 (W) x 78 (H) x 335 (D) mm, ≤700 g	41 (W) x 78 (H) x 335 (D) mm, ≤550 g	

*1 Wavelength: 1300 nm
*2 Measurement interval: 100 ms, average: 10 times, peak to peak noise, wavelength: 1300 nm
*3 SM fiber (ITU-T G.652), return loss: ≥45 dB, wavelength: 1550 nm
*4 Reference conditions
SM fiber (ITU-T G.652), master FC connector
Power level: 100 µW (–10 dBm), CW light, wavelength: 1300 nm, ambient temperature: 23˚ ±2˚C
At day of calibration, warm-up: 1 h (MU931311A) and 30 min (MU931421A/931422A)
*5 Operating conditions
SM Fiber (ITU-T G.652), master FC connector, CW light, any wavelength in 1000 to 1600 nm (MU931311A) and 1000 to 1650 nm (MU931421A/931422A), ambient temperature: 23˚ ±5˚C, within 1 year after calibration, warm-up: 1 h (MU931311A) and 30 min (MU931421A/931422A), Uncertainty increase by 1% if either a fiber other than a SM fiber (ITU-T G.652) or an APC connector is used with the MU931422A.
*6 Measurement conditions: Constant temperature within 23˚ ±5˚C, bandwidth: auto/0.1/1/10 Hz, any wavelength in 1000 to 1600 nm (MU931311A) and 1000 to 1650 nm (MU931421A/931422A), CW light, power level: 100 µW (–10 dBm) reference, warm-up: 1 h (MU931311A) and 30 min (MU931421A/931422A)
*7 Only record measurements for measurement interval of ≤100 ms
*8 Full-scale value for each measurement range
*9 Approx. 3 dB bandwidth. Response time at bandwidth setting of 100 kHz varies according to analog output amplitude
*10 Specify connector for optical connector option supplied as standard accessory. If connector not specified, FC-PC (Option 37) supplied as standard.

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• MA9331A (with MU931001A Optical Sensor Adapter)

Sensor element	InGaAs-PD
Input type	Fiber
Supported fiber	9/125 to 62.5/125 µm (NA: ≤0.29)
Wavelength range	940 to 1640 nm
Optical power measurement range*1	+35 to –50 dBm
Noise level	≤–43 dBm
Polarization dependent loss*2	≤0.01 dB (PC connector), ≤0.05 dB (APC connector)
Optical power measurement accuracy	±3% (at +30 dBm)*3, ±4% (at +30 dBm)*4
Linearity*5	±0.05 dB ±30 nW (–40 to +35 dBm)
Environmental conditions	Operating temperature/humidity: 0˚ to +40˚C/≤90% (no condensation) Storage temperature/humidity: –40˚ to +71˚C/≤90% (no condensation)
Dimensions and mass	60 (W) x 78 (H) x 90 (D) mm, ≤750 g

∗1 1550 nm
∗2 SM fiber (ITU-T G.652), 1550 nm
∗3 Reference conditions: SM fiber (ITU-T G.652), 1550 nm, APC connector, +30 dBm, CW light, 23˚ ±2˚C (RH: 60% ±10%)
∗4 Operating conditions: SM fiber (ITU-T G.652), 980 nm ±1 nm, 1240 to 1340 nm, 1440 to 1640 nm, APC connector, +30 dBm, CW light, 23˚ ±5˚C (2% increase when using wavelength outside above range), RH: 60% ±10%
∗5 Constant temperature within 23˚ ±5˚C range

Ordering information

Please specify the model/order number, name and quantity when ordering.

Model/Order No.	Name	
	Main frame	
MT9812B	Multi Channel Box	
	Standard accessories	
J0895	RCA short pin (for remote inter-rock):	1 pc
J0896	RCA plug (for remote inter-rock):	1 pc
Z0391	Key (for laser output control):	2 pcs
F0013	Fuse, 5 A (for 100/200 Vac):	2 pcs
	Power cord, 2.6 m:	1 pc
B0425	Blank panel:	8 pcs
W1555AE	MT9812B operation manual:	1 copy
	Option	
MT9812B-01	High power sensor option (for MU931431A)	
	Application parts	
J0006	GPIB cable, 0.5 m	
J0007	GPIB cable, 1 m	
J0008	GPIB cable, 2 m	
J0009	GPIB cable, 4 m	
J0655A	RS-232C cable (9P-25P, cross)	
J0654A	RS-232C cable (9P-9P, cross)	
B0333B	Rack mount kit	
	[Light sources]	
	Main frame	
MU952501A	DFB-LD Light Source*1	
MU952502A	DFB-LD Light Source*1	
MU952503A	DFB-LD Light Source*1	
MU952504A	DFB-LD Light Source*1	
MU952505A	DFB-LD Light Source*1	
MU952601A	DFB-LD Light Source*1	
MU952602A	DFB-LD Light Source*1	
MU952603A	DFB-LD Light Source*1	
MU952604A	DFB-LD Light Source*1	
MU952605A	DFB-LD Light Source*1	
MU952606A	DFB-LD Light Source*1	
MU951301A	FP-LD Light Source	
MU951501A	FP-LD Light Source	
MU951001A	Switchable FP-LD Light Source	
	Standard accessory	
	Optical connector adapter*2	

Model/Order No.	Name
	Options
MU952501A-01	Light source (fp: 193.10 THz, 1552.52 nm)
MU952501A-02	Light source (fp: 193.20 THz, 1551.72 nm)
MU952501A-03	Light source (fp: 193.30 THz, 1550.92 nm)
MU952501A-04	Light source (fp: 193.40 THz, 1550.12 nm)
MU952501A-05	Light source (fp: 193.50 THz, 1549.32 nm)
MU952501A-06	Light source (fp: 193.60 THz, 1548.51 nm)
MU952501A-07	Light source (fp: 193.70 THz, 1547.72 nm)
MU952501A-08	Light source (fp: 193.80 THz, 1546.92 nm)
MU952501A-09	Light source (fp: 193.90 THz, 1546.12 nm)
MU952501A-10	Light source (fp: 194.00 THz, 1545.32 nm)
MU952502A-01	Light source (fp: 192.10 THz, 1560.61 nm)
MU952502A-02	Light source (fp: 192.20 THz, 1559.79 nm)
MU952502A-03	Light source (fp: 192.30 THz, 1558.98 nm)
MU952502A-04	Light source (fp: 192.40 THz, 1558.17 nm)
MU952502A-05	Light source (fp: 192.50 THz, 1557.36 nm)
MU952502A-06	Light source (fp: 192.60 THz, 1556.55 nm)
MU952502A-07	Light source (fp: 192.70 THz, 1555.75 nm)
MU952502A-08	Light source (fp: 192.80 THz, 1554.94 nm)
MU952502A-09	Light source (fp: 192.90 THz, 1554.13 nm)
MU952502A-10	Light source (fp: 193.00 THz, 1553.33 nm)
MU952503A-07	Light source (fp: 191.70 THz, 1563.86 nm)
MU952503A-08	Light source (fp: 191.80 THz, 1563.05 nm)
MU952503A-09	Light source (fp: 191.90 THz, 1562.23 nm)
MU952503A-10	Light source (fp: 192.00 THz, 1561.42 nm)
MU952504A-01	Light source (fp: 194.10 THz, 1544.53 nm)
MU952504A-02	Light source (fp: 194.20 THz, 1543.73 nm)
MU952504A-03	Light source (fp: 194.30 THz, 1542.94 nm)
MU952504A-04	Light source (fp: 194.40 THz, 1542.14 nm)
MU952504A-05	Light source (fp: 194.50 THz, 1541.35 nm)
MU952504A-06	Light source (fp: 194.60 THz, 1540.56 nm)
MU952504A-07	Light source (fp: 194.70 THz, 1539.77 nm)
MU952504A-08	Light source (fp: 194.80 THz, 1538.98 nm)
MU952504A-09	Light source (fp: 194.90 THz, 1538.19 nm)
MU952504A-10	Light source (fp: 195.00 THz, 1537.40 nm)
MU952505A-01	Light source (fp: 195.10 THz, 1536.61 nm)
MU952505A-02	Light source (fp: 195.20 THz, 1535.82 nm)
MU952505A-03	Light source (fp: 195.30 THz, 1535.04 nm)
MU952505A-04	Light source (fp: 195.40 THz, 1534.25 nm)
MU952505A-05	Light source (fp: 195.50 THz, 1533.47 nm)
MU952505A-06	Light source (fp: 195.60 THz, 1532.68 nm)
MU952505A-07	Light source (fp: 195.70 THz, 1531.90 nm)
MU952505A-08	Light source (fp: 195.80 THz, 1531.12 nm)
MU952505A-09	Light source (fp: 195.90 THz, 1530.33 nm)
MU952601A-01	Light source (fp: 191.10 THz, 1568.77 nm)
MU952601A-02	Light source (fp: 191.20 THz, 1567.95 nm)
MU952601A-03	Light source (fp: 191.30 THz, 1567.13 nm)
MU952601A-04	Light source (fp: 191.40 THz, 1566.31 nm)
MU952601A-05	Light source (fp: 191.50 THz, 1565.50 nm)
MU952601A-06	Light source (fp: 191.60 THz, 1564.68 nm)
MU952602A-01	Light source (fp: 190.10 THz, 1577.03 nm)
MU952602A-02	Light source (fp: 190.20 THz, 1576.20 nm)
MU952602A-03	Light source (fp: 190.30 THz, 1575.37 nm)

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Model/Order No.	Name
MU952602A-04	Light source (fp: 190.40 THz, 1574.54 nm)
MU952602A-05	Light source (fp: 190.50 THz, 1573.71 nm)
MU952602A-06	Light source (fp: 190.60 THz, 1572.89 nm)
MU952602A-07	Light source (fp: 190.70 THz, 1572.06 nm)
MU952602A-08	Light source (fp: 190.80 THz, 1571.24 nm)
MU952602A-09	Light source (fp: 190.90 THz, 1570.42 nm)
MU952602A-10	Light source (fp: 191.00 THz, 1569.59 nm)
MU952603A-01	Light source (fp: 189.10 THz, 1585.36 nm)
MU952603A-02	Light source (fp: 189.20 THz, 1584.53 nm)
MU952603A-03	Light source (fp: 189.30 THz, 1583.69 nm)
MU952603A-04	Light source (fp: 189.40 THz, 1582.85 nm)
MU952603A-05	Light source (fp: 189.50 THz, 1582.02 nm)
MU952603A-06	Light source (fp: 189.60 THz, 1581.18 nm)
MU952603A-07	Light source (fp: 189.70 THz, 1580.35 nm)
MU952603A-08	Light source (fp: 189.80 THz, 1579.52 nm)
MU952603A-09	Light source (fp: 189.90 THz, 1578.69 nm)
MU952603A-10	Light source (fp: 190.00 THz, 1577.86 nm)
MU952604A-01	Light source (fp: 188.10 THz, 1593.79 nm)
MU952604A-02	Light source (fp: 188.20 THz, 1592.95 nm)
MU952604A-03	Light source (fp: 188.30 THz, 1592.10 nm)
MU952604A-04	Light source (fp: 188.40 THz, 1591.26 nm)
MU952604A-05	Light source (fp: 188.50 THz, 1590.41 nm)
MU952604A-06	Light source (fp: 188.60 THz, 1589.57 nm)
MU952604A-07	Light source (fp: 188.70 THz, 1588.73 nm)
MU952604A-08	Light source (fp: 188.80 THz, 1587.88 nm)
MU952604A-09	Light source (fp: 188.90 THz, 1587.04 nm)
MU952604A-10	Light source (fp: 189.00 THz, 1586.20 nm)
MU952605A-01	Light source (fp: 187.10 THz, 1602.31 nm)
MU952605A-02	Light source (fp: 187.20 THz, 1601.46 nm)
MU952605A-03	Light source (fp: 187.30 THz, 1600.60 nm)
MU952605A-04	Light source (fp: 187.40 THz, 1599.75 nm)
MU952605A-05	Light source (fp: 187.50 THz, 1598.89 nm)
MU952605A-06	Light source (fp: 187.60 THz, 1598.04 nm)
MU952605A-07	Light source (fp: 187.70 THz, 1597.19 nm)
MU952605A-08	Light source (fp: 187.80 THz, 1596.34 nm)
MU952605A-09	Light source (fp: 187.90 THz, 1595.49 nm)
MU952605A-10	Light source (fp: 188.00 THz, 1594.64 nm)
MU952606A-03	Light source (fp: 186.30 THz, 1609.19 nm)
MU952606A-04	Light source (fp: 186.40 THz, 1608.33 nm)
MU952606A-05	Light source (fp: 186.50 THz, 1607.47 nm)
MU952606A-06	Light source (fp: 186.60 THz, 1606.60 nm)
MU952606A-07	Light source (fp: 186.70 THz, 1605.74 nm)
MU952606A-08	Light source (fp: 186.80 THz, 1604.88 nm)
MU952606A-09	Light source (fp: 186.90 THz, 1604.03 nm)
MU952606A-10	Light source (fp: 187.00 THz, 1603.17 nm)
	Applications parts
J0617B	Replaceable optical connector (FC, user replaceable)
J0618D	Replaceable optical connector (ST, user replaceable)
J0618E	Replaceable optical connector (DIN, user replaceable)
J0618F	Replaceable optical connector (HMS-10/A, user replaceable)
J0619B	Replaceable optical connector (SC, user replaceable)
Z0282	Ferrule cleaner
Z0283	Ferrule cleaning tape (6 pcs/set)
Z0284	Adapter cleaner (stick type, 200 pcs/set)
	[Optical sensor] **Main frame**
MU931311B	Optical Sensor
MU931421B	Optical Sensor
	Standard accessory Optical connector adapter*2
	Applications parts
J0617B	Replaceable optical connector (FC, user replaceable)
J0618D	Replaceable optical connector (ST, user replaceable)
J0618E	Replaceable optical connector (DIN, user replaceable)
J0618F	Replaceable optical connector (HMS-10/A, user replaceable)
J0619B	Replaceable optical connector (SC, user replaceable)
Z0282	Ferrule cleaner
Z0283	Ferrule cleaning tape (6 pcs/set)
Z0284	Adapter cleaner (stick type, 200 pcs/set)
J0575	Optical fiber cord (both-end FC-PC type with connector, RL >50 dB, SM), 2 m
MZ8012A	Connector Cleaning Set
J0127A	Coaxial cord (BNC-P · RG-58A/U · BNC-P), 1 m
J0003A	Coaxial cord (SMA-P · 3D-2W · SMA-P), 1 m
J0901A	HRM-517 (09) conversion connector (SMA-P · BNC-J)
J0902A	HRM-518 (09) conversion connector (SMA-J · BNC-P)

Model/Order No.	Name
	Main frame
MU931422B	Optical Sensor (MA9005A Connector Adapter attached)
	Standard accessory Optical connector adapter (for MU931311B/931421B)*2
W1624AE	MU931422B operation manual
	Applications parts
MA9005A-32	Connector adapter (MU, user replaceable)
MA9005A-33	Connector adapter (LC, user replaceable)
MA9005A-37	Connector adapter (FC, user replaceable)
MA9005A-38	Connector adapter (ST, user replaceable)
MA9005A-39	Connector adapter (DIN, user replaceable)
MA9005A-40	Connector adapter (SC, user replaceable)
MA9005A-43	Connector adapter (HMS-10/A, user replaceable)
MA9013A	Fiber Adapter (for bare fiber)
MA9901A	Fiber Adapter (for bare fiber)
MA9902A	Connector Adapter (for MA9901A)
Z0282	Ferrule cleaner
Z0283	Ferrule cleaning tape (6 pcs/set)
Z0284	Adapter cleaner (stick type, 200 pcs/set)
J0635B	Optical fiber cord (both-end FC-PC type, with connector, RL >50 dB, SM), 2 m
MZ8012A	Connector Cleaning Set
J0127A	Coaxial cord (BNC-P · RG-58A/U · BNC-P), 1 m
J0003A	Coaxial cord (SMA-P · 3D-2W · SMA-P), 1 m
J0901A	HRM-517 (09) conversion connector (SMA-P · BNC-J)
J0902A	HRM-518 (09) conversion connector (SMA-J · BNC-P)
	Main frame
MU931431A	Optical Sensor
	Standard accessory Optical connector adapter*2
W1896AE	MU931431A operation manual
	Applications parts
MA9005B-32	Connector adapter (MU, user replaceable)
MA9005B-33	Connector adapter (LC, user replaceable)
MA9005B-37	Connector adapter (FC, user replaceable)
MA9005B-38	Connector adapter (ST, user replaceable)
MA9005B-39	Connector adapter (DIN, user replaceable)
MA9005B-40	Connector adapter (SC, user replaceable)
MA9005B-43	Connector adapter (HMS-10/A, user replaceable)
MA9013A	Fiber Adapter (for bare fiber)
MA9901B	Fiber Adapter (for bare fiber)
MA9902B	Connector Adapter (for MA9901B)
J0178A	AG adapter
J0952A	Conversion cord (FC · PC-FC · APC), 1 m
J0954A	Conversion cord (SC · PC-SC · APC), 1 m
	Main frame
MA9331A	Optical Sensor
	Standard accessory Optical connector adapter*2
	Applications parts
MA9008A-32	Connector adapter (MU, user replaceable)
MA9008A-33	Connector adapter (LC, user replaceable)
MA9008A-37	Connector adapter (FC, user replaceable)
MA9008A-38	Connector adapter (ST, user replaceable)
MA9008A-39	Connector adapter (DIN, user replaceable)
MA9008A-40	Connector adapter (SC, user replaceable)
MA9008A-43	Connector adapter (HMS-10/A, user replaceable)
MA9013A	Fiber Adapter
MA9901B	Fiber Adapter
MA9903A	Connector Adapter (for MA9901B)
Z0282	Ferrule cleaner
Z0283	Ferrule cleaning tape (6 pcs/set)
Z0284	Adapter cleaner (stick type, 200 pcs/set)
MZ8012A	Connector Cleaning Set

Continued on next page

For product ordering information, see pages 5 – 12
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Model/Order No.	Name
	Main frame
MA9332A	Optical Sensor
MA9333A	Optical Sensor
	Standard accessory
	Optical connector adapter*2
	Applications parts
MA9005A-32	Connector adapter (MU, user replaceable)
MA9005A-33	Connector adapter (LC, user replaceable)
MA9005A-37	Connector adapter (FC, user replaceable)
MA9005A-38	Connector adapter (ST, user replaceable)
MA9005A-39	Connector adapter (DIN, user replaceable)
MA9005A-40	Connector adapter (SC, user replaceable)
MA9005A-43	Connector adapter (HMS-10/A, user replaceable)
MA9013A	Fiber Adapter (for bare fiber)
MA9901A	Fiber Adapter (for bare fiber)
MA9902A	Connector Adapter (for MA9901A)
Z0282	Ferrule cleaner
Z0283	Ferrule cleaning tape (6 pcs/set)
Z0284	Adapter cleaner (stick type, 200 pcs/set)
MZ8012A	Connector Cleaning set
	[Sensor adapter]
	Main frame
MU931001A	Sensor Adapter
	Standard accessory
J1073A	Optical sensor connect cable, 1.5 m
W1895AE	MU931001A/MA9331A/MA9332A operation manual
	Applications parts
J0127A	Coaxial cord (BNC-P · RG-58A/U · BNC-P), 1 m
J0003A	Coaxial cord (SMA-P · 3D-2W · SMA-P), 1 m
J0901A	HRM-517 (09) conversion connector (SMA-P · BNC-J)
J0902A	HRM-518 (09) conversion connector (SMA-J · BNC-P)
	Main frame
MU931002A	Sensor Adapter
	Standard accessory
J1073A	Optical sensor connect cable, 1.5 m
	Applications parts
J0127A	Coaxial cord (BNC-P · RG-58A/U · BNC-P), 1 m
J0003A	Coaxial cord (SMA-P · 3D-2W · SMA-P), 1 m
J0901A	HRM-517 (09) conversion connector (SMA-P · BNC-J)
J0902A	HRM-518 (09) conversion connector (SMA-J · BNC-P)
	Optical connector options
	(for light sources and optical sensors)
[Model]-32	MU connector (user replaceable)
[Model]-33	LC connector (user replaceable)
[Model]-37	FC connector (user replaceable)
[Model]-38	ST connector (user replaceable)
[Model]-39	DIN connector (user replaceable)
[Model]-40	SC connector (user replaceable)
[Model]-43	HMS-10/A connector (user replaceable)

*1: Specify an optical frequency (wavelength) and model name when ordering.
*2: When ordering, the option specified connector is supplied as standard. Specified the option number after the light source or optical sensor model number. If a connector is not specified, a FC (Option 37) connector is supplied as standard. These are applied to DFB-LD unit, FP-LD unit, SLD unit and optical sensor. However, MU and LC connecter option are only apply to MU931422B, MA9331A, MA9332A and MA9333A.

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