

■ OPTICAL TRANSCEIVER MODULE

● Digital-optical transceiver module (3R type)

Type No.		Data Rate	Transmission Distance	Optical fiber type · others
MF-015DS-TR123-020/021	★	1.5Mbps	~30km	Single mode fiber/transmit and receipt in one package
MF-063DS-TR123-030/031	★	6.3Mbps	~30km	Single mode fiber/transmit and receipt in one package
MF-156DS-T12-070/080/090	★	156Mbps	~60km	Single mode fiber/transmit and receipt separate type
MF-156DS-R13-050/060/070	★	156Mbps	~60km	Single mode fiber/transmit and receipt separate type
MF-622DS-T12-230/240/250	★	622Mbps	~60km	Single mode fiber/transmit and receipt separate type
MF-622DS-R13-110/120/130	★	622Mbps	~60km	Single mode fiber/transmit and receipt separate type
MF-2500DS-T12-030/031/032/033	★	2.5Gbs	~180km	Single mode fiber/transmit and receipt separate type
MF-2500DS-R13-030	★	2.5Gbs	~15km	Single mode fiber/transmit and receipt separate type
MF-2500DS-R14-030/031/032	★	2.5Gbs	~180km	Single mode fiber/transmit and receipt separate type

Note : 3R : Reshaping,Regenerating,Retiming function

Note : MF-156DS Series fully compies ITU-T standard STM-1 Tranceiver spec.

Note : MF-622DF/DS Series fully compies ITU-T standard STM-4 Tranceiver spec.

Note : MF-2500DS Series fully compies ITU-T standard STM-16 Tranceiver spec.

■ EDFA

● EDFA

Type No.	Principal spec	Feature · others
FG-602S-T01	Output +16dBm (optical input level -5dBm) , 1.53~1.56 μm	1.48 μm Double pump, For Booster amp use
FG-603S-T01	Output +13dBm (optical input level -3dBm) , 1.53~1.56 μm	1.48 μm Double pump, For Booster amp use

■ OPTICAL PASSIVE PARTS

● Optical star coupler

Type No.	Function	Wavelength	Feature · others
FD-511B-N	10×10	0.8 μm area	Receptacle type · For LAN, (GI-50)
FD-53B-N	16×16	0.8 μm area	Receptacle type · For LAN, (GI-50)
FD-54B-N	32×32	0.8 μm area	Receptacle type · For LAN, (GI-50)
FD-54D-N	33×33	0.8 μm area	Receptacle type · For LAN, 2-core plug (GI-50)
FD-511-N	10×10	0.8/1.3 μm area	Receptacle type · (GI-50)
FD-53-N	16×16	0.8/1.3 μm area	Receptacle type · (GI-50)
FD-54C-N	32×32	0.8 μm area	Receptacle type · For SC conector (GI-50)

● Optical switch

Type No.	Function	Wavelength	Feature · others
FS-21	2×2	0.8 μm area	Pigtail type · Thin type
FS-31	2×2	1.3 μm area	Pigtail type · Thin type

● Optical attenuator

Type No.	Attenuation	Wavelength	Feature · others
FA-05FL-NP/FA-05FL-NP (S)	5dB	1.3 μm area	Plug-juck type · MMF/SMF
FA-10FL-NP/FA-10FL-NP (S)	10dB	1.3 μm area	Plug-juck type · MMF/SMF
FA-15FL-NP/FA-15FL-NP (S)	15dB	1.3 μm area	Plug-juck type · MMF/SMF
FA-20FL-NP/FA-20FL-NP (S)	20dB	1.3 μm area	Plug-juck type · MMF/SMF

(NOTE) (S) at the end shows single-mode fiber use.

● Optical-fiber connector

Type No.	Fiber (mm)	Coupling Loss/Return Loss			Optical Fiber Type	Connector Type
		Super PC	Ultra PC	Angled PC		
FC-31CS-F	φ 3	0.45dBmax/40dBmin	0.45dBmax/50dBmin	0.5dBmax/60dBmin	SMF	FC IEC874-7 (JIS C5970)
FC-31CM-F	φ 3	0.25dBmax/36dBmin	—	—	MMF (G150/125)	FC IEC874-7 (JIS C5970)
FC-31CS-S	φ 3	0.45dBmax/40dBmin	0.45dBmax/40dBmin	0.5dBmax/60dBmin	SMF	SC IEC874-14 (JIS C5973)
FC-31CM-S	φ 3	0.25dBmax/36dBmin	—	—	MMF (G150/125)	SC IEC874-14 (JIS C5973)

● Adaptor

Type No.	Coupling Loss	Optical Fiber Type	Connector Type
FC-11SN	0.45 dB max	SMF	FC IEC874-7 (JIS C5970)
FC-11MN	0.25 dB max	MMF (G150/125)	FC IEC874-7 (JIS C5970)