

Furukawa FITEL Optical Components Line-up

LiNbO₃ Modulator

Part Number	Baud Rate (Gbaud)	Drive Method	Wavelength	Drive Voltage(V _π) [at RF] [V]	Alpha Parameter	RF Interface	T _c [°C]	Size (L x W x H) [mm]
FTM7992HM	64	Single - Ended	C-band	≤4.2 (at 64Gbps)	0	G3PO	-5 to 75	81.7 x 12.5 x 6.5
FTM7995HN	45		C-band	≤4.5 (at 45Gbps)		GPPO		90.5 x 13.5 x 7.0
FTM7979HKA (SFF type)	32		C-band	≤ 3.5 (at 32Gbps)		FPC		82.0 x 10.0 x 5.5
FTM7977HQA			L-band			GPPO		90.5 x 13.5 x 7.0

● 400G ● 300G ● 200G ● 150G ● 100G



Thin-Film LiNbO₃ Coherent Driver Modulator

Part Number	Baud Rate(Gbaud)	3dB Cut-off Freq. [GHz]	Wavelength	Power Consumption [W]	RF Interface	T _c [°C]	Size (L x W x H) [mm]
FTM8300JN	130	>65	C-band	FPC	-5 to 80	<30.0 x 12.0 x 4.5	

● 800G ● 400G



Integrated Coherent Receiver

Part Number	Baud Rate(Gbaud)	3dB Cut-off Freq. [GHz]	Wavelength[nm]	Output Volt. Swing [mVp-p]	Power Consumption[W]	RF Interface	T _c [°C]	Size (L x W x H) [mm]
FIM24961 (VOA Integrated)	130	Typ. 70	C-Band	300 to 700	2.1 max	FPC	-5 to 85	24.6 x 12.0 x 4.5
FIM24942 (VOA Integrated)	96	Typ. 50		300 to 700	Typ. 1.7	SMT		23.0 x 12.0 x 5.5
FIM24902 (VOA Integrated)	64	Typ. 40		300 to 700	Typ. 1.4	SMT		23.0 x 12.0 x 5.5
FIM24725 (VOA Integrated)	32	Typ. 22		300 to 900	Typ. 1.4	SMT		23.0 x 12.0 x 5.5

● 800G ● 600G ● 400G ● 300G ● 200G ● 100G



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Part Number Maximum Data Rate [Gbps] Wavelength [nm] Max Power Consumption[W] Tc [°C] Size(L x W x H) [mm] Distance[Km]

800Gbps
600Gbps
400Gbps
300Gbps
200Gbps
100Gbps

CFP2 DCO Transceiver

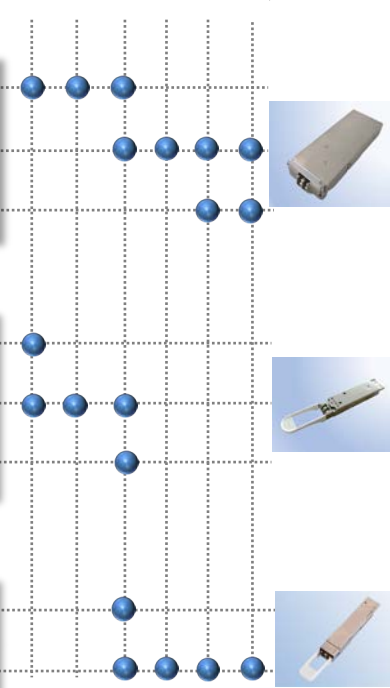
FIM41000	800(*2)	Full C-band Tunable	(*1)	0 to 75	107.5 x 41.5 x 12.4	Metro	1000km(*2)
FIM38750	400(*2)		(*1)	-5 to 70			400km(*2)
FIM38760	200(*2)		(*1)				2500km(*2)

OSFP DCO Transceiver

FIM41100	800	Full C-band Tunable	(*1)	0 to 75	100.4 x 22.6 x 13.0	ZR	120km
FIM41150	800(*2)		(*1)			ZR+	1000km(*2)
FIM38800	400		(*1)			ZR	120km

QSFP56-DD DCO Transceiver

FIM38900	400	Full C-band Tunable	(*1)	0 to 75	93.3 x 18.4 x 8.5	ZR	120km
FIM38950	400(*2)		(*1)			ZR+	400km(*2)



(*1) Available upon request (*2) Depends on modulation format and FEC

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■ All of FFOC's transceivers, modulators and receivers are RoHS10 compliant.

Furukawa FITEL Optical Components America, Inc.
2445 Augustine Dr, Suite 150, Santa Clara, CA 95054, USA
Phone: +1 669-246-8112

Furukawa FITEL Optical Components Italy S.p.A.
Viale Monza 259, 20126 Milano, Italy
Phone: +39 02 26294 283

Furukawa FITEL Optical Components Co., Ltd.

Furukawa Denko Kanda Bldg., 16-8 Uchikanda 2-chome, Chiyoda-ku, Tokyo, 101-0047, Japan