

LIGHTPASS™-EOB 100G

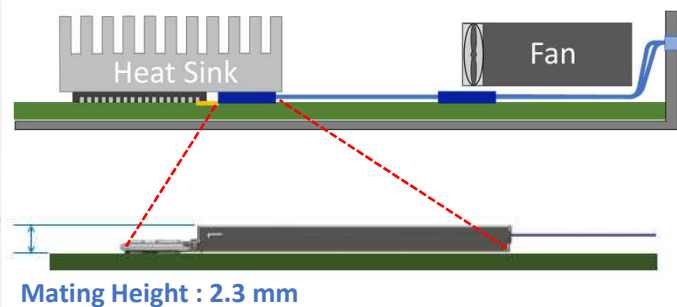
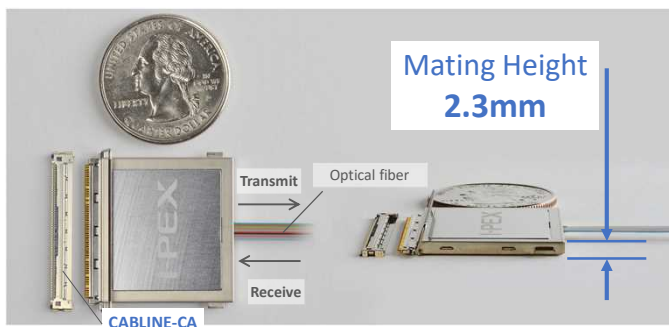
100 G (25 Gbps x 4 ch) Bi-directional, Low profile, MPU integrated, Low power consumption, photoelectric conversion module

Product Specifications:

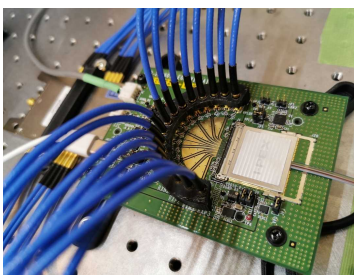
High Channel Capacity	100 Gbps (25 Gbps x 4)
Size	29.01 x 29.75 x 2.30
Case Temperature Operating Range	-40 ~ 85 degree
Electrical Interface	I-PEX CABLINE®-CA 60P
Optical Interface	12 core MT Connector via 12 core Multi Mode Fiber
Power Supply	0.9, 1.0 and 3.3V
Low Power Consumption per Gbps	Consumption per Gbps: < 35 mW/Gbps for TX-RX pair



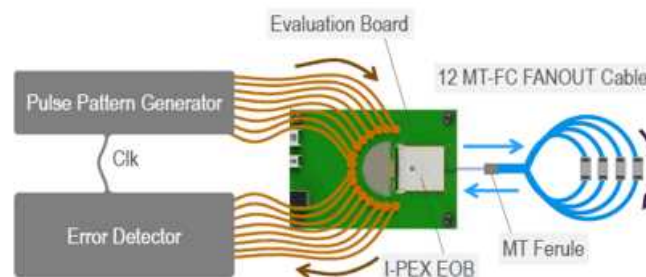
Ultra-Thin Mating Height : 2.3 mm



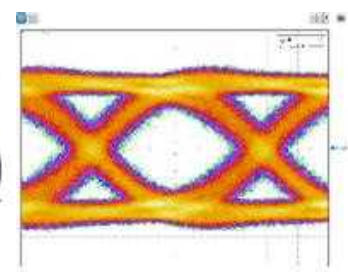
High Speed Transmission : 100 Gbps (25 Gbps x 4 Channel)



Evaluation Board

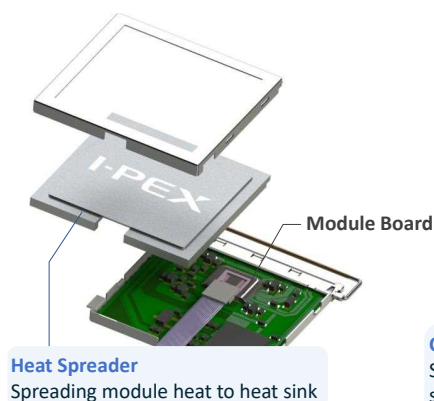


Test Fixture



Eye pattern

MPU integrated Active Optical Module



Electric signal

Capacitor
Suppresses power supply noise and stabilizes IOCore

MCU

Control or monitor IOCore programmatically

Fiber Array The optical fiber is straightens and an end face mirror is formed at the tip by laser cutting.

0.25mm

O/E E/O Module Convert electrical signals into optical signals and optical signals into electrical signals

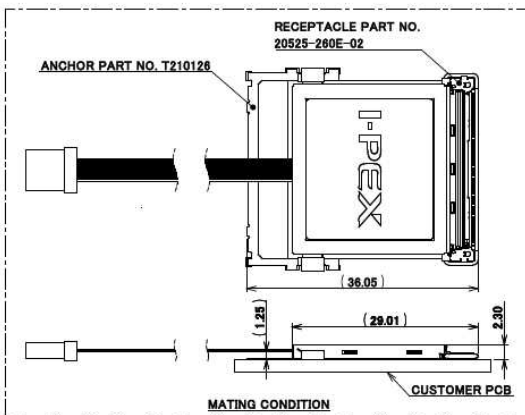
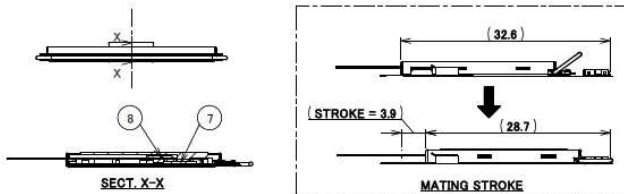
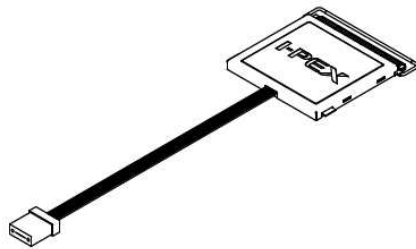
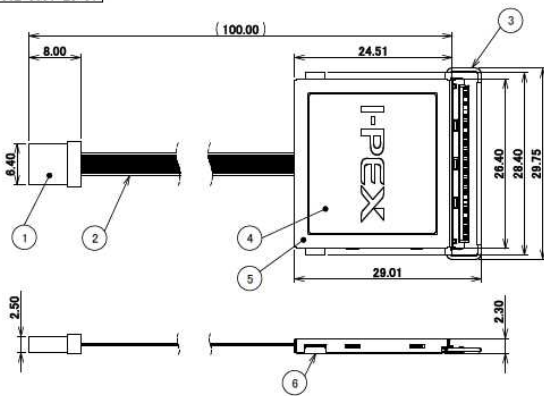
Optical signal

I/O Core

Component Parts Detail

EOB 100G Optical Module

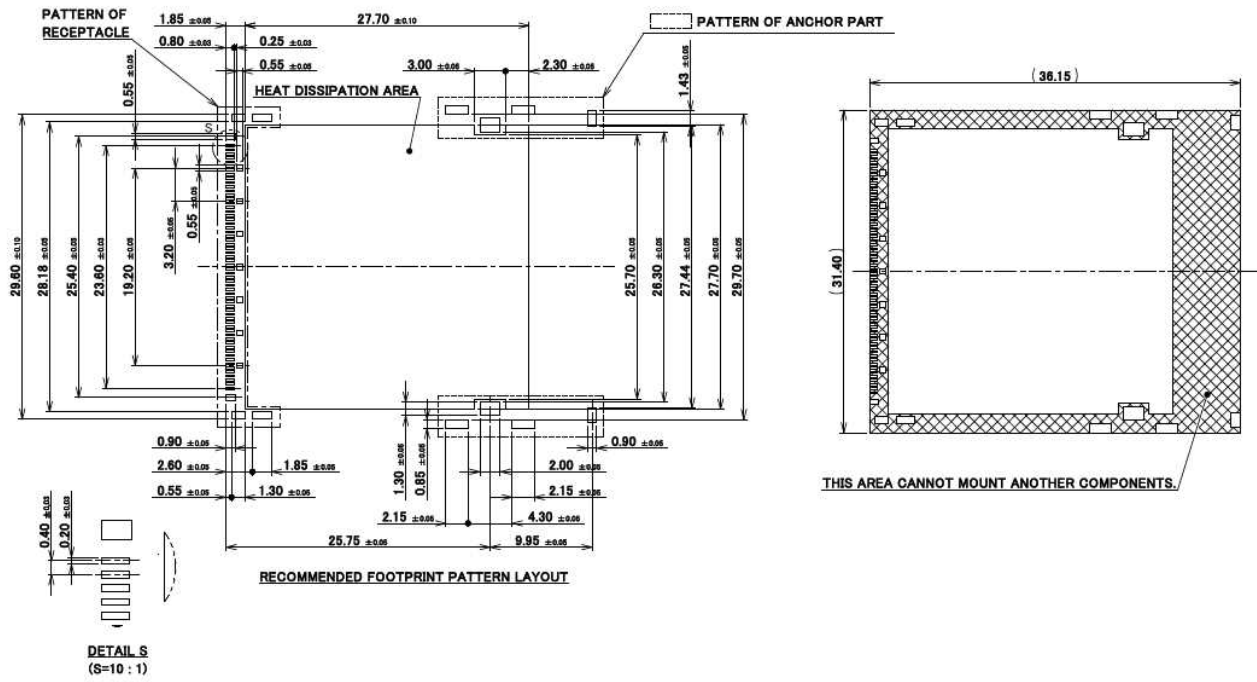
Recommended P/N 88002-000T-25-01
 PART NO.
 88002-000T-25-01



8	OPTICAL CONNECTER	-	-
7	OPTICAL I/O CORE P/N PAA-XW8001-ESB	-	TIP NUMBERING
6	SHELL-B	COPPER ALLOY	NICKEL PLATING
5	SHELL-A	COPPER ALLOY	NICKEL PLATING
4	HEAT SPREADER	ALUMINUM	ANODIZING
3	CABLIN [®] -CAF SHELL ASS'Y P/N 20858-080T-01	-	-
2	12-CORE TAPE FIBER	-	-
1	12-MT FERRULE	-	-
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

ANGLE: ±2° 6 OVER 30 MAX ±0.3 PROJECTION SERIES NO. CUSTOMER COPY

EOB 100G Optical Module



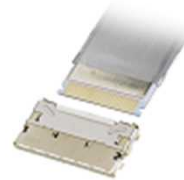
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Power



High-Power



I/O (Input/Output)



Quick charge



Effector



Custom Connectors Available

Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, EVAFLEX, MINIFLEX, ISH, IARPB, IASLP, ESTORQ, ISFIT, i-Fit and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2022
All rights reserved.