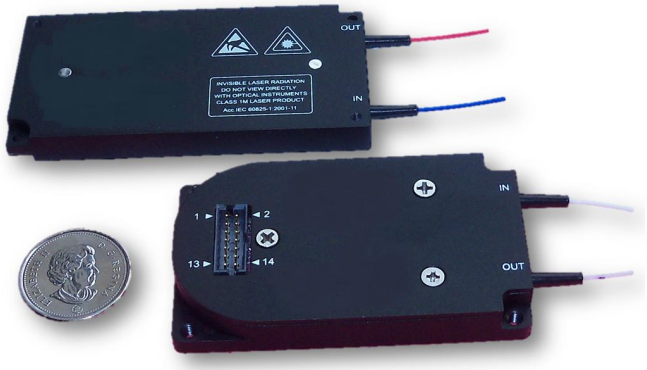
1040C Gain Block

Features

- low power, low cost, ultra-compact amplifier
- No control circuits Build-in
- Low NF design
- C-band Or L-band can be Customed
- Telcordia GR-1312 Conforming Reliability



Applications

- Ultra high speed optical communication system
- Optical communication system
- Long-distance backbone network

1040C Gain block is a low power, low cost, ultra-compact amplifier based on the uncooled 980 nm pump laser and erbium doped fiber. Only standard and field proven components are used, ensuring long term reliability.

Tiny: Small footprint and ultra-slim profile are the key characteristics of Gain block products.
Customizable: 1040C Gain block can be customized for different application.
No Electronic Driver: Customer who chooses 1040C shall provide pump laser control and output control circuits. However we can provide controlled version through 1040 and 1040V.

Optical Specifications

Parameter		Min.	Typ.	Max.	Unit
Wavelength Range(Custom)	C-Band	1528		1565	nm
	L-Band	1570		1605	nm
Maximum Output Power(Custom)				18	dBm
Noise Figure, for G > 20dB			5.0	5.5	dB
Optical Return Loss (at Input and Output Ports)		40			dB
Polarization Mode Dispersion			0.3	0.5	ps
Polarization Dependent Gain			±0.2	±0.5	dB
Signal Detection Accuracy (Within the Range)			±0.3	±0.5	dB

Operating Temperature	0		60	°C
Power Supply Voltage	3.13	3. 3	3. 47	Volt
Electrical Connector	12 or 14 PIN			
Dimensions (H x W x D)	80 x 40 x 7.5 (mm) Type S 70 x 40 x 10 (mm) Type R			

Ordering information

1040CX	—	XX	O	X	XX	—	XX	X
Type		Typical Gain		Type	Max Ouput Power		Optical Connector	Band
S- Type S R- Type R			O—Single Channel	B—Booster L—Line P—PreAmp			FC—FC/PC FA—FC/APC SC—FC/PC SA—FC/PC LC—FC/PC LA—FC/PC Other custom	C—C-Band L—L-Band Other custom