

**Introduction**

The SO-GBIC-Cxx-L120 is fully compliant with Gigabit Interface Converter (GBIC) specification SFF-8053, Rev 5.5. It meets the requirements of IEEE 802.3 Gigabit Ethernet standard and ANSI Fibre Channel specifications, and is suitable for interconnections in Gigabit Ethernet and Fibre Channel environments.

This module is designed for use with singlemode fiber and operates at a nominal Coarse Wavelength Division Multiplexing (CWDM) wavelength. There are eight center wavelengths available from 1471 nm to 1611 nm, with each step 20 nm. The CWDM characteristics are fully compliant with the wavelength parameters specified in ITU standards G.694.2 and G.695.

**APPLICATIONS**

- 1.25 Gb/s 1000Base Ethernet
- 1.0625 Gb/s Fibre Channel

**FEATURES**

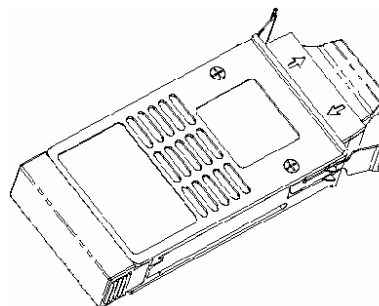
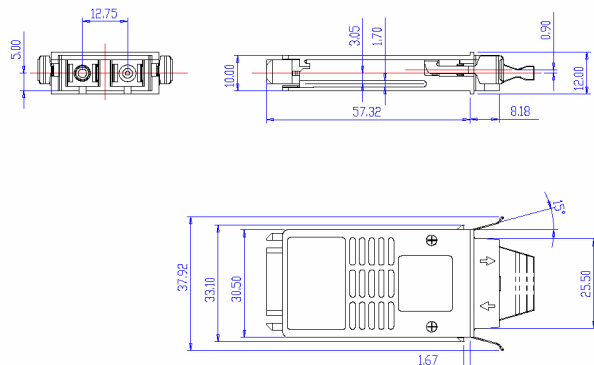
- Up to 120 km transmission
- 32 dB power budget
- Standard GBIC footprint, SFF-8053 compatible
- 8 CWDM wavelengths ( $\lambda$ ): 1471 nm to 1611 nm
- Extended power supply +3.3V/+5.0V compatible

**LASER SAFETY**

This singlemode transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module needs to be terminated with an optical connector or a dust plug.

**REGULATORY COMPLIANCE**

- GBIC specification SFF-8053, Rev 5.5
- ANSI specification for Fibre Channel
- IEEE 802.3z
- FCC 47 CFR Part 15, Class B
- FDA 21 CFR 1040.10 and 1040.11, Class 1

**Optical Parameters**

Parameter	Symbol	Min	Typ	Max	Units
Optical Output Power	P <sub>out</sub>	0	2.0	+4	dBm
Center Wavelength Deviation	$\lambda_{dev}$	-6.5		6.5	nm
Optical Receiver Sensitivity	P <sub>sens</sub>		-34	-32	dBm
Data Rate		1.0625		1.25	Gb/s

**Ordering Information:**

Part no:	Description/Application
SO-GBIC-L120-Cxx	SmartOptics Universal GBIC, CWDM, 120 km

-C47 = CWDM 1470 nm  
-C55 = CWDM 1550 nm

-C49 = CWDM 1490 nm  
-C57 = CWDM 1570 nm

-C51 = CWDM 1510 nm  
-C59 = CWDM 1590 nm

-C53 = CWDM 1530 nm  
-C61 = CWDM 1610 nm