

SM7012-Cxx Right Angle and Straight GBIC Connectors

Thru Hole Solder Connectors for Giga Bit Interface Converters

FEATURES

- UL Recognized / CSA Certified
- Solder and aqueous wash compatible
- Compatible with wave solder and IR reflow
- Integral PCB retention and ESD protection feature
- Options for 0.062", 0.093" and 0.125" thick PCB's
- Gold plated contacts for high mating cycle durability
- 100% electrically tested for proper mating sequence

APPLICATIONS

The Stratos Lightwave SM7012-Cxx GBIC (Giga Bit Interface Converter) connectors provide interconnection solutions for all of the standard GBIC implementations per SFF 8053 rev 5.2a for switch, server, disk drive and other short range and long range data communications applications.

These GBIC guide rails are suitable for Fibre Channel, Gigabit Ethernet and other GBIC applications as defined in the SFF 8053 document.

DESCRIPTION

The SM7012-Cxx GBIC connectors enable a host platform to support a wide variety of cable media types and transmission ranges by plugging in the desired interface converter per the SDD 8053 specification. The integral ESD ground strap and alignment system enables blind mating, hot plugging and provides a secure connection path to system / chassis ground. Stratos offers horizontal or vertical GBIC connector mounting options.

Stratos offers a complete line of GBIC modules and guide rails for optical fiber and copper cable media interfaces. For the latest specifications of alternate Stratos GBIC components please consult the Stratos website.

ORDERING INFORMATION

Application	PCB	Part Number
Right Angle Connector	1.6mm / 0.062"	SM7012-CR1
Right Angle Connector	2.4mm / 0.093"	SM7012-CR2
Right Angle Connector	3.6mm / 0.125"	SM7012-CR3
Straight Angle Connector	1.6mm / 0.062"	SM7012-CS1
Straight Angle Connector	2.4mm / 0.093"	SM7012-CS2
Straight Angle Connector	3.6mm / 0.125"	SM7012-CS3



Selectronix Ltd, Minerva House,
Calleva Park, Aldermaston,
Reading, RG7 8NE, England.

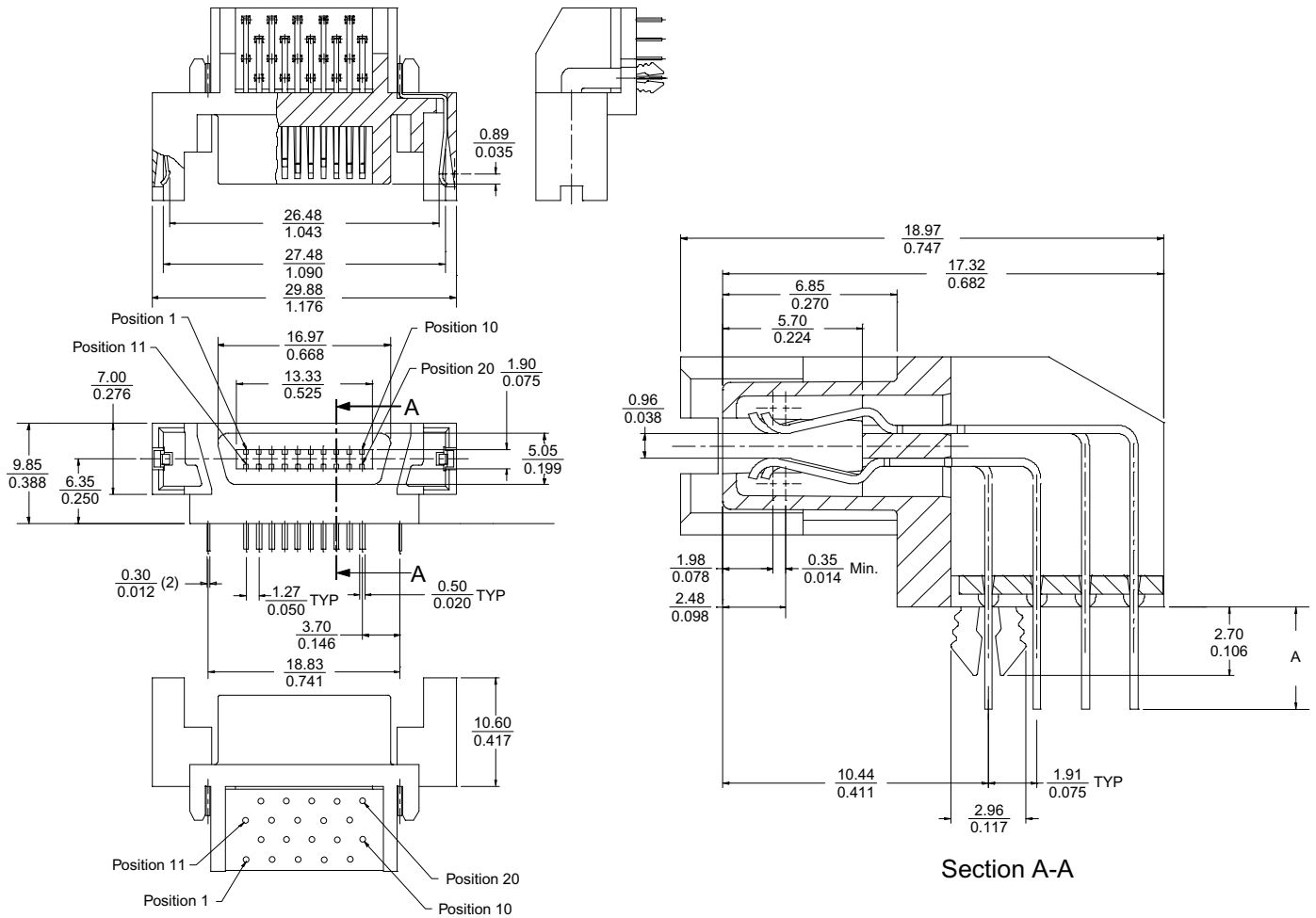
Tel: +44 (0) 118 9817387
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RIGHT ANGLE GBIC CONNECTOR

Dimensions Are Shown As: $\frac{\text{mm}}{\text{inches}}$



Part Number	PCB	Dimension A
SM7012-CR1	1.6mm / 0.062"	2.50mm / 0.098"
SM7012-CR2	2.4mm / 0.093"	3.70mm / 0.146"
SM7012-CR3	3.6mm / 0.125"	4.70mm / 0.185"



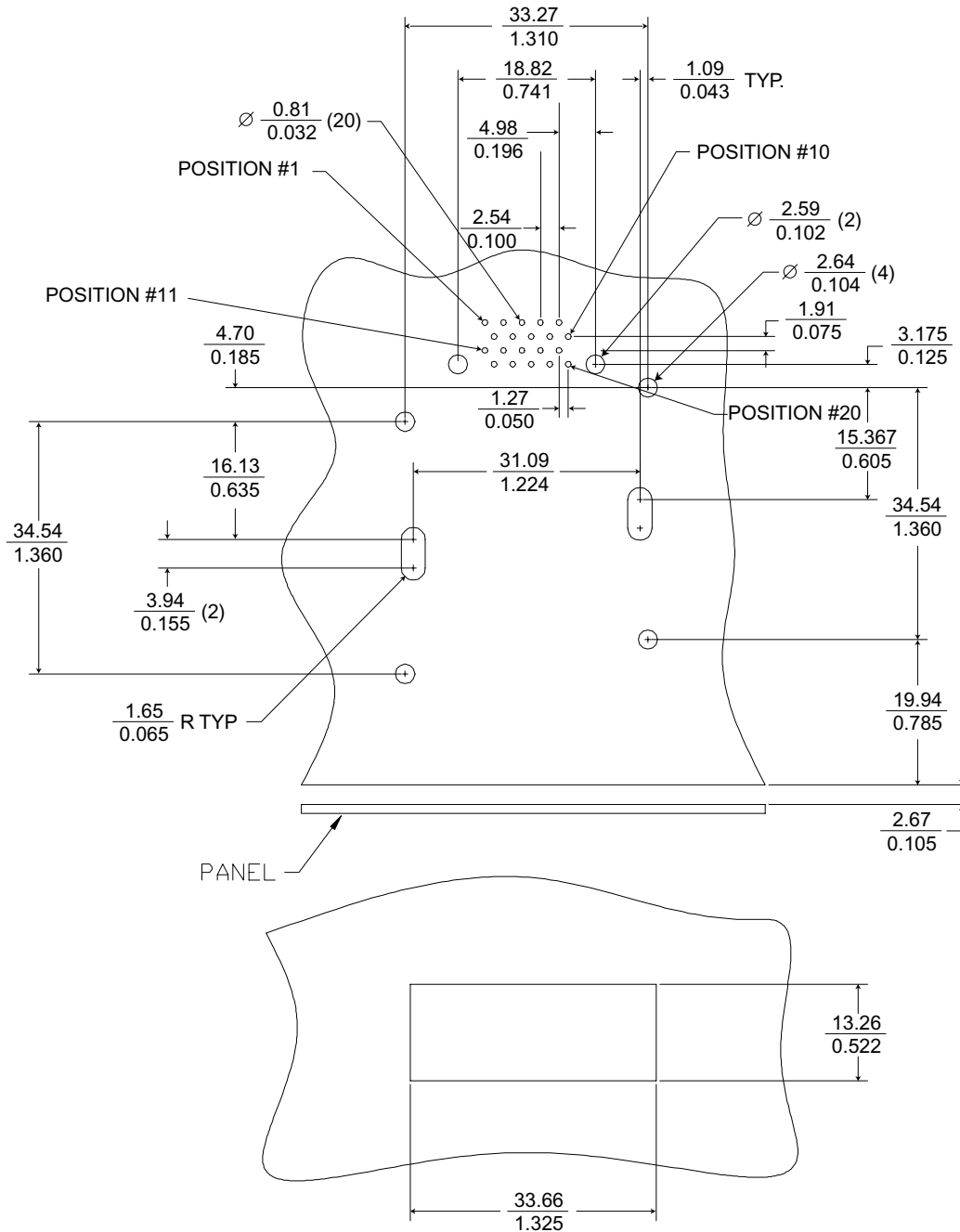
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Right Angle GBIC Printed Circuit Board Layout
Component Side Shown
Dimensions Are Shown As: $\frac{\text{mm}}{\text{inches}}$



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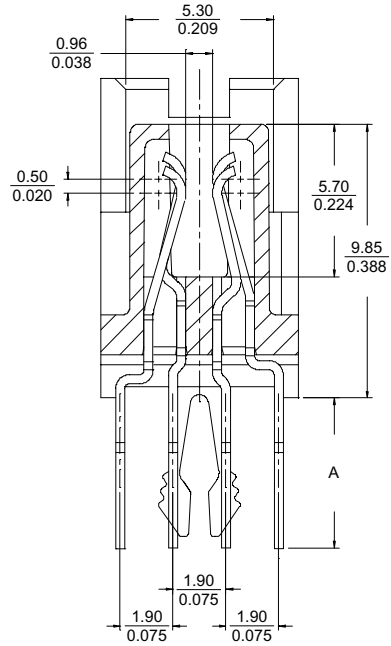
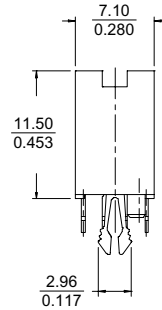
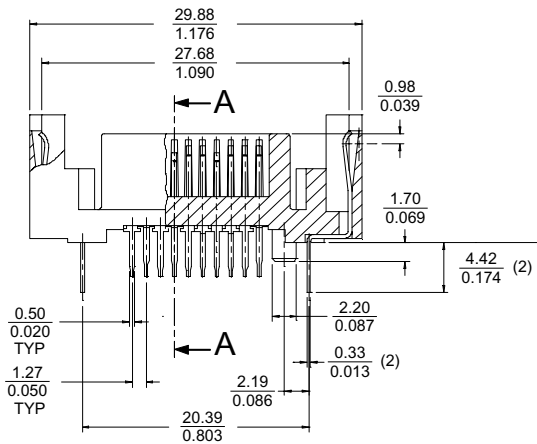
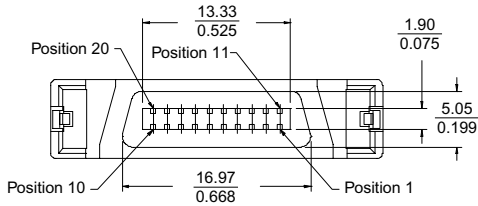
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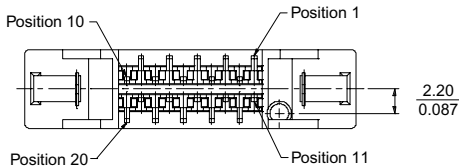
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STRAIGHT GBIC CONNECTOR

Dimensions Are Shown As: $\frac{\text{mm}}{\text{inches}}$



SECTION A-A



Part Number	PCB	Dimension A
SM7012-CS1	1.6mm / 0.062"	2.50mm / 0.098"
SM7012-CS2	2.4mm / 0.093"	3.70mm / 0.146"
SM7012-CS3	3.6mm / 0.125"	4.70mm / 0.185"



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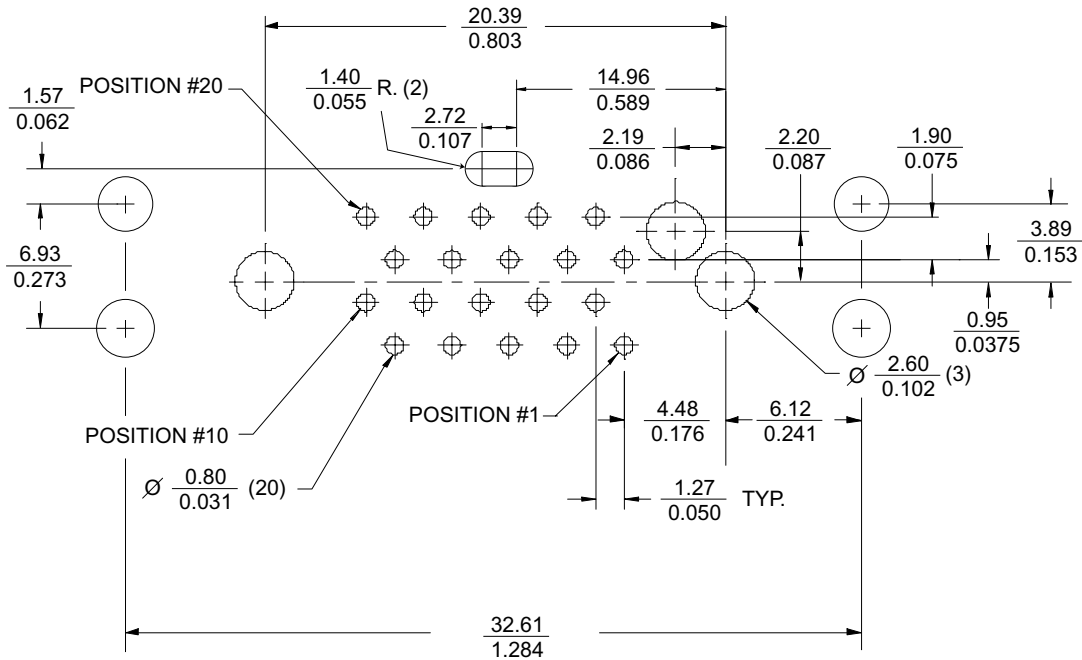
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Straight GBIC Printed Circuit Board Layout

Component Side Shown
Dimensions Are Shown As: $\frac{\text{mm}}{\text{inches}}$



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Mechanical	Parameter
Durability	100 cycles of mating & unmating
Contact Positions	11 thru 14 and 17 thru 20 are positioned to provide first mating 1 thru 10, 15 and 16 are positioned to provide second mating
Materials	Parameter
Insulators	Liquid Crystal Polymer, Black, UL-94 V-0
Contacts	Phosphor Bronze
Retention Clips	Phosphor Bronze
Platings	Parameter
Mating Contacts	0.00127mm Min. Nickel Underplate All Over 0.00076mm Min. Gold Plate in Contact Area 0.00381mm Min. 90/10 Tin/Lead in Solder Tail Area
Retention Clips	0.00127mm Min. Nickel Underplate All Over 0.00381mm Min. 90/10 Tin/Lead All Over
Electrical	Parameter
Voltage Rating	250 VAC
Current Rating	1.0 Amp
Contact Resistance	20 MOhms Max.
DWV	750 VAC for 1 minute
Insulations Resistance	1000 MOhms
Environmental	Parameter
Operating Temperature	-40 to +105 Degrees C



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