



## SM7012-Rxx GBIC Guide Rail

### Guide Rail for Gigabit Interface Converters

#### FEATURES

- Robust torsion spring maintains proper door position
- Compliant with SFF 8053 Rev 5.2a
- Solder and aqueous wash compatible
- High spring rate bezel gaskets for low EMI
- UL 94 V-0 insulator rating
- Options for 0.062", 0.093" and 0.125" thick PCB's
- Plated versions offer enhanced EMI security

#### APPLICATIONS

The Stratos Lightwave SM7012-Rxx GBIC (Giga Bit Interface Converter) Guide Rails provide alignment, retention and shielding 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-Rxx GBIC Guide Rails 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 SFF 8053 specification. The integral spring loaded metal door preserves the EMI integrity of the system enclosure when no module is present to fill the cavity. The Stratos GBIC Guide Rails can be horizontally or vertically mounted.

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

#### ORDERING INFORMATION

Application	Finish	PCB	Part Number
GBIC Guide Rail	Unplated	0.062"	SM7012-RN1
GBIC Guide Rail	Unplated	0.093"	SM7012-RN2
GBIC Guide Rail	Unplated	0.125"	SM7012-RN2
GBIC Guide Rail	Plated	0.062"	SM7012-RP1
GBIC Guide Rail	Plated	0.093"	SM7012-RP2
GBIC Guide Rail	Plated	0.125"	SM7012-RP3



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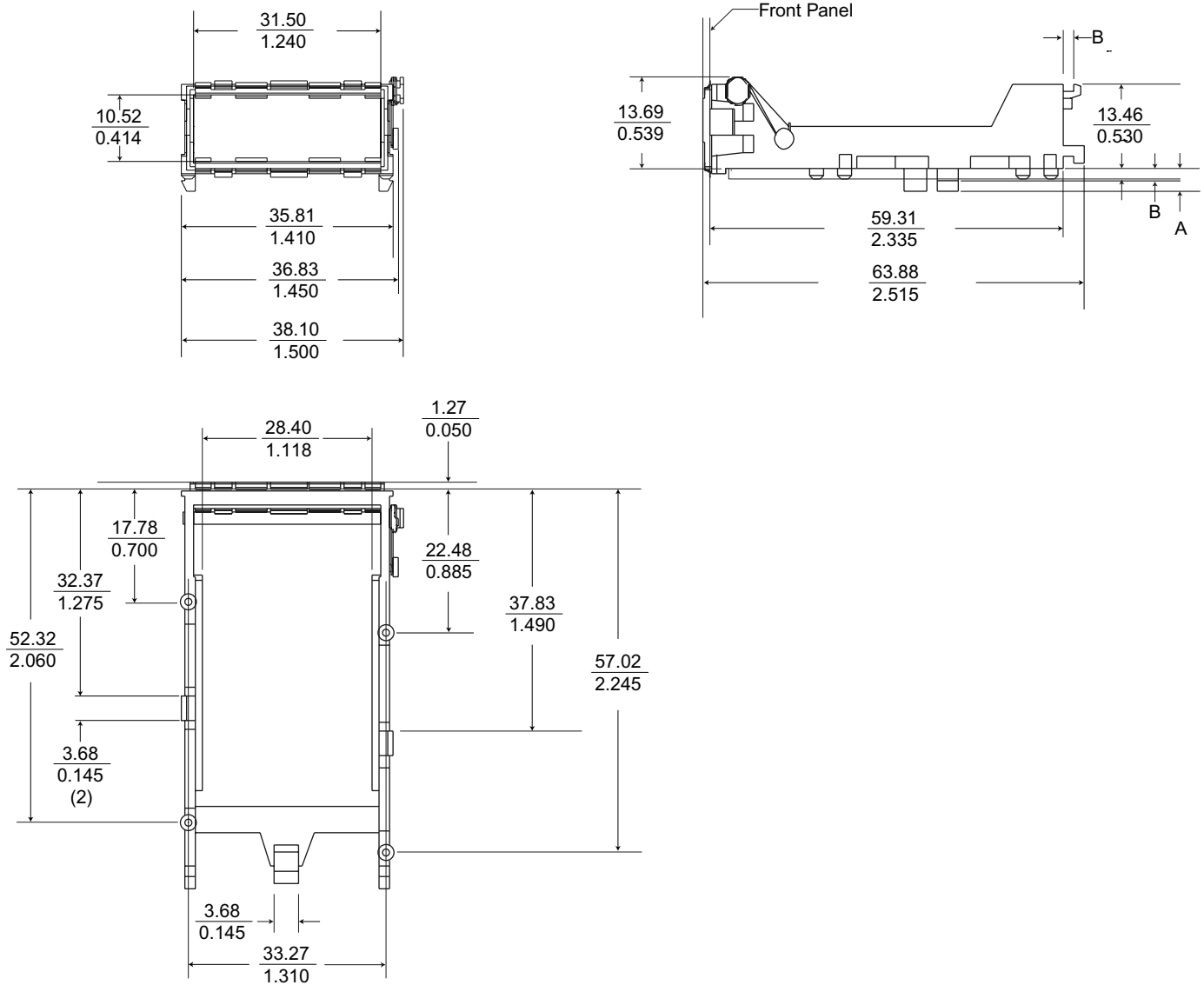
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# SM7012-Rxx GBIC Guide Rail

## Guide Rail for Gigabit Interface Converters

### SM7012-Rxx Outline Dimensions

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



Part Number	PCB	Dimension A	Dimension B
SM7012-Rx1	0.062"	3.53 [0.139]	1.83 [0.072]
SM7012-Rx2	0.093"	4.37 [0.172]	2.72 [0.107]
SM7012-Rx3	0.125"	5.11 [0.201]	3.40 [0.134]



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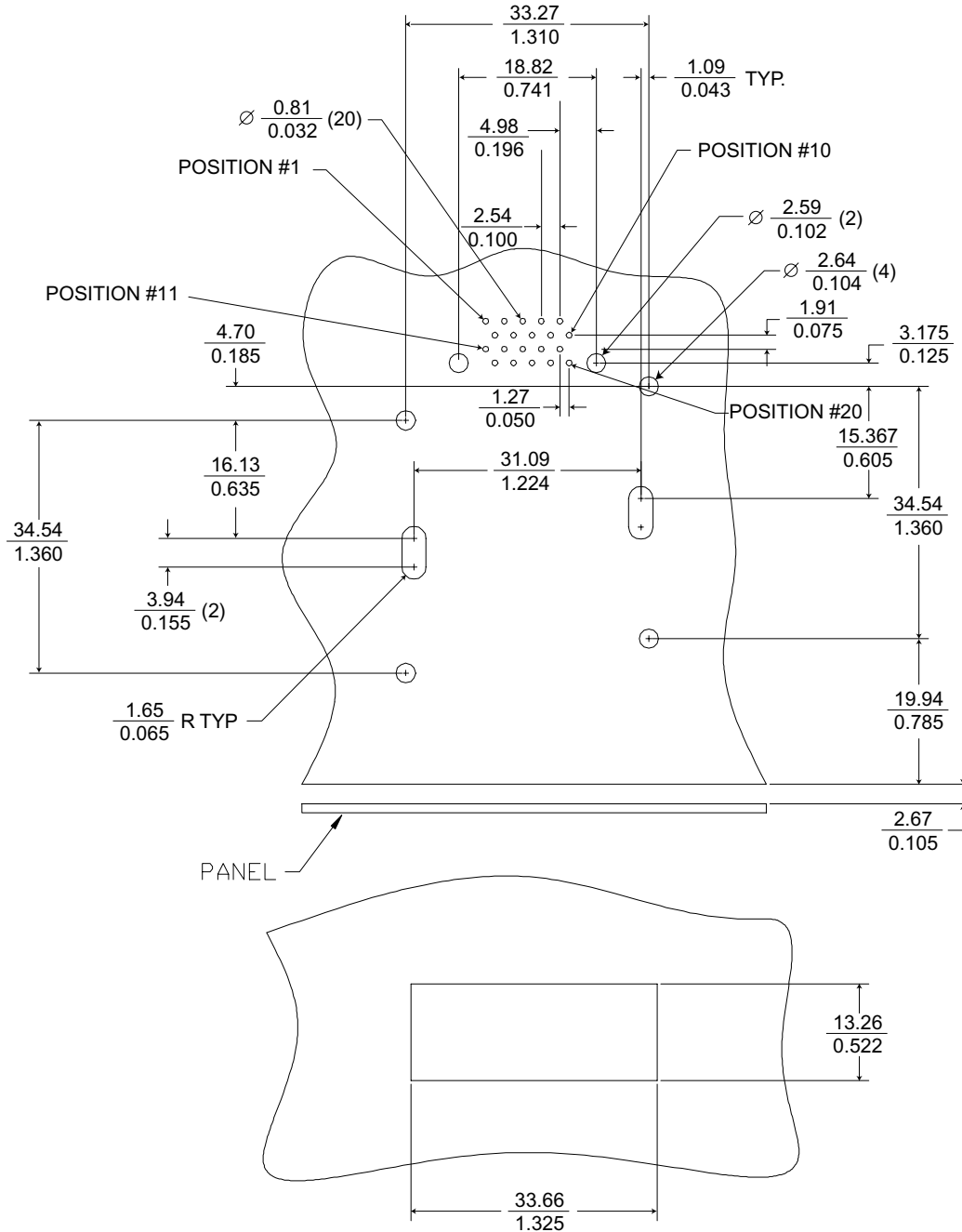
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# SM7012-Rxx GBIC Guide Rail

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### GBIC Guide Rail Printed Circuit Board Layout

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



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## Guide Rail for Gigabit Interface Converters

### Mechanical

Durability: 100 cycles of mating & unmating

### Materials

Insulator Material: Nylon, UL-94 V-0

EMI Gaskets: Phosphor Bronze, Tin-Lead Plated

Torsion Spring: Stainless Steel

EMI Shield: Zamak, Tin-Lead Plated

### IMPORTANT NOTICE

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