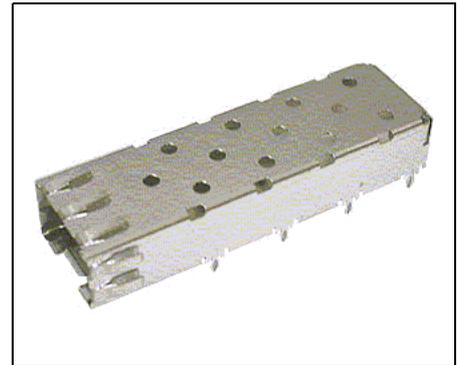


**Cage  
for Small Form Factor Pluggable (SFP) Transceiver**

**V23818-S5-N1  
V23818-S5-N1-BB**

**Features**

- Supports MSA compliant host board layouts and transceiver designs
- One-piece, rigid stainless steel construction with tin-lead plating
- Simple and fast installation/removal
- Solid retention strength
- Easily press fit onto host board via tear-drop foot design
- Testing of rear connector may take place before SFP Cage is installed onto host board
- Low emission design via fold-back spring fingers – no openings for radiation to pass through
- Enhanced transceiver kick-out and retention springs
- Heat transfer windows on all SFP Cage surfaces
- Cage can be press fit and/or soldered



**Description**

Infineon is offering its Cage for Small Form Factor Pluggable (SFP) transceivers with the most rigid mechanical design available on the market. The Cage is designed for press fit applications in order to reduce high volume manufacturing effort. Press fit pins can be also soldered if required. Externally bent bezel contact springs and one-piece construction enhance EMI performance. As part of Infineon's Total Transceiver Solution, the SFP Cage is your logical choice for next generation pluggable transceivers.

Part Number	Description
V23818-S5-N1	For single-sided mounting
V23818-S5-N1-BB	For double-sided "belly to belly" mounting (see <b>Figure 3</b> )

## Application Notes

- For single-sided mounting, optimum host board thickness is .059 to .062 in [1.5 to 1.57 mm]. SFP Cage mounting holes should be plated with HASL, gold, or immersion silver finish per MSA dimensional recommendations
- For double-sided mounting, host board thickness is .118 in [3.0 mm] minimum per the MSA. For belly-to-belly applications, one of the rear mounting feet is removed to avoid interference (V23818-S5-N1-BB)
- Installation of the SFP Cage may be done by hand or with a solid metal block across the top surface of the Cage. Block dimensions to be controlled by customer
- Removal of the Cage should be done with an internal solid metal block. Due to the collapsing nature of the teardrop foot design, the Infineon SFP Cage is intended for one-time installation
- The Infineon SFP Cage does not cause any damage when carefully removed; the outside profile of the teardrop feet is smooth and will not destroy pre-plated host board mounting holes
- Trapped fluids from washing process must be dried to prevent corrosion beneath SFP Cage
- Cage retention depends on finished hole size and plating thickness

## System Configurations

- Single-sided mounting with .640 in [16.25 mm] pitch
- Double-sided "belly to belly" mounting with .640 in [16.25 mm] pitch
- Double-sided "offset belly to belly" mounting with .975 in [24.77 mm] pitch

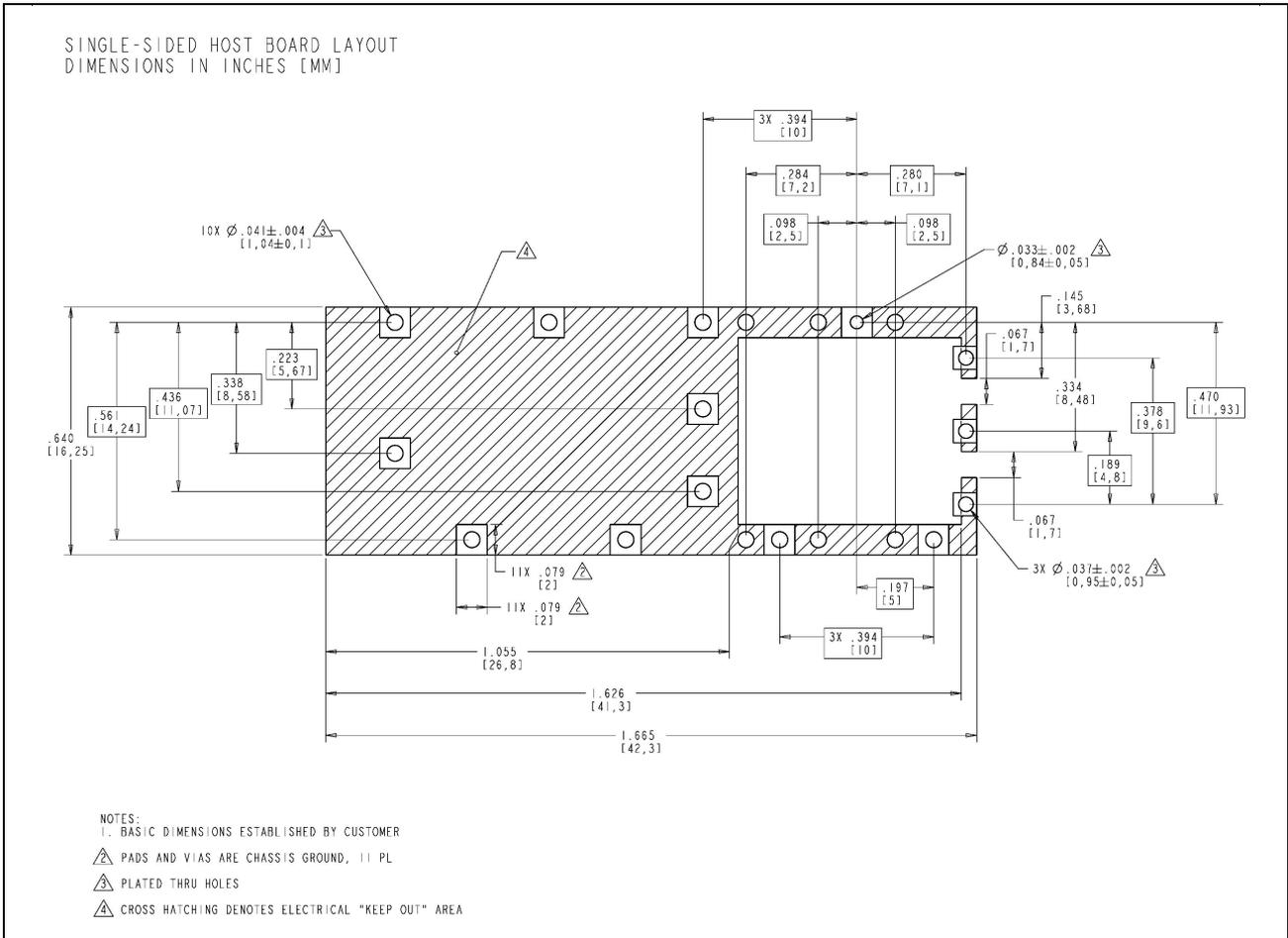


Figure 1 Single-sided Host Board Layout

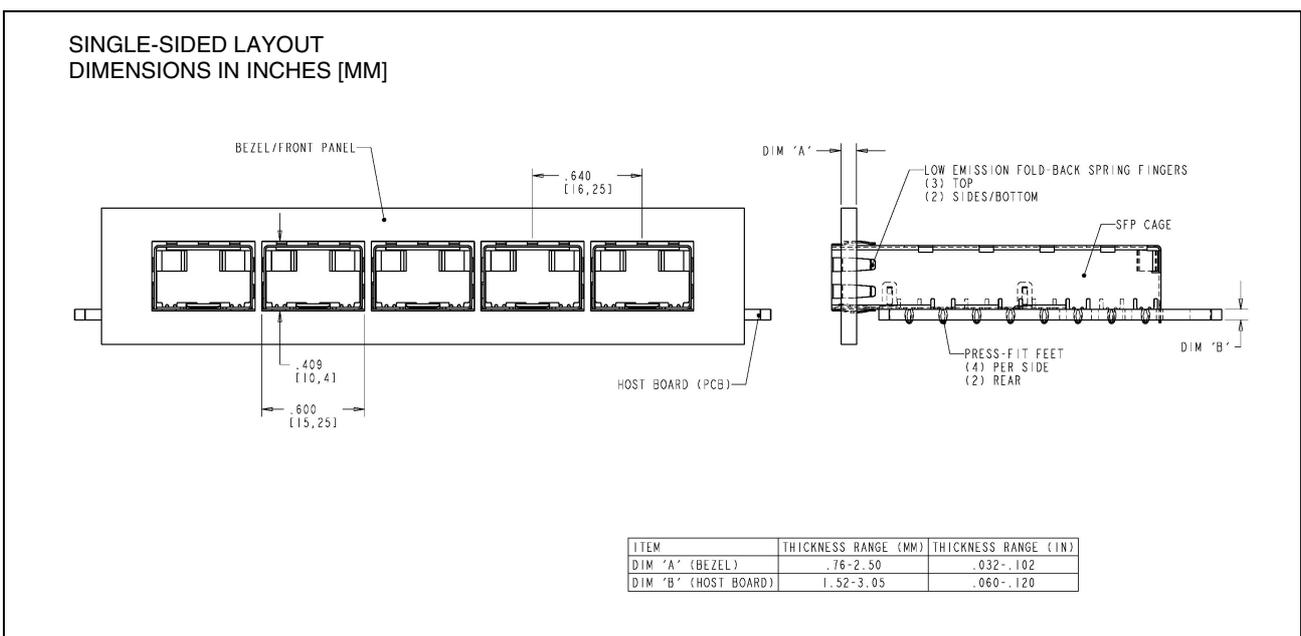
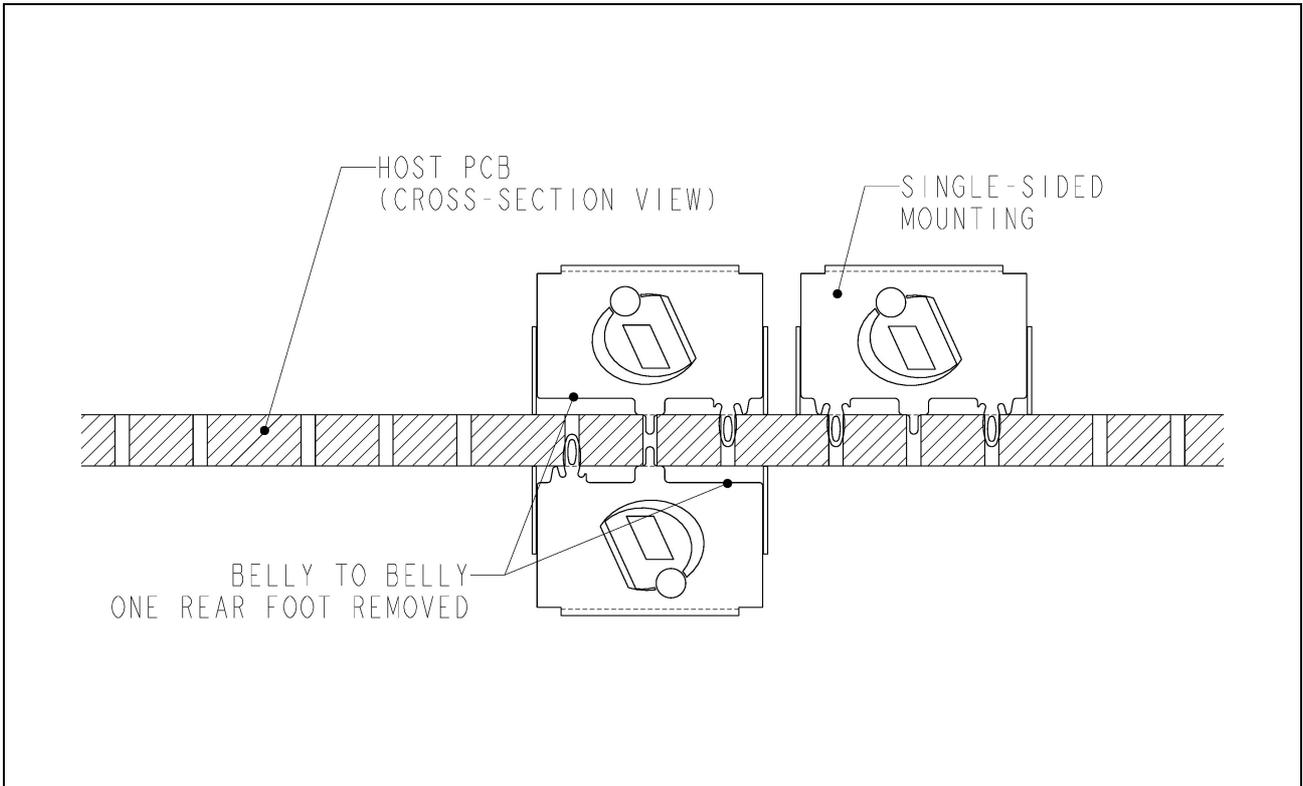


Figure 2 Single-sided Layout



**Figure 3**

## Single-sided Application

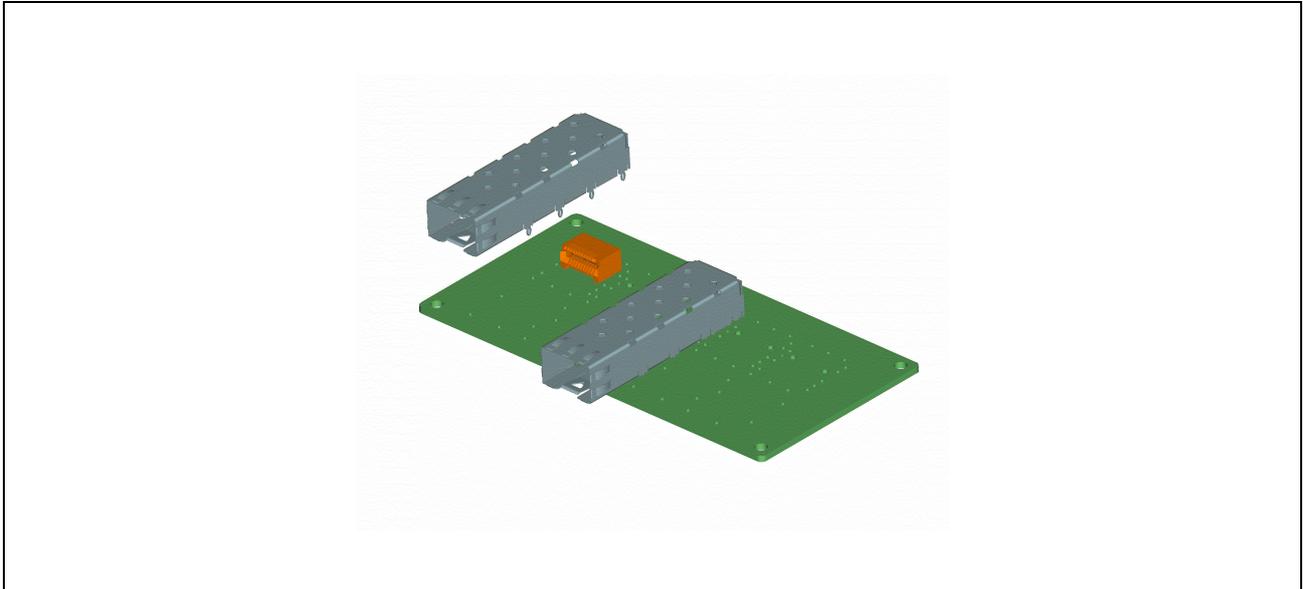


Figure 4

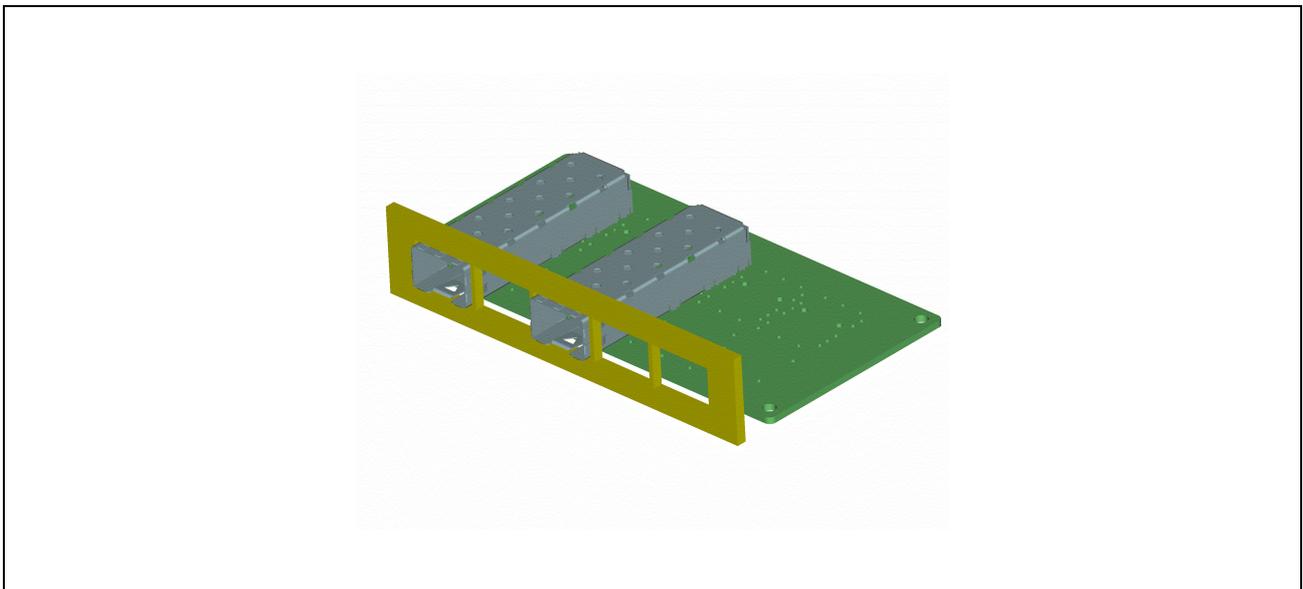


Figure 5

## Belly to Belly Application

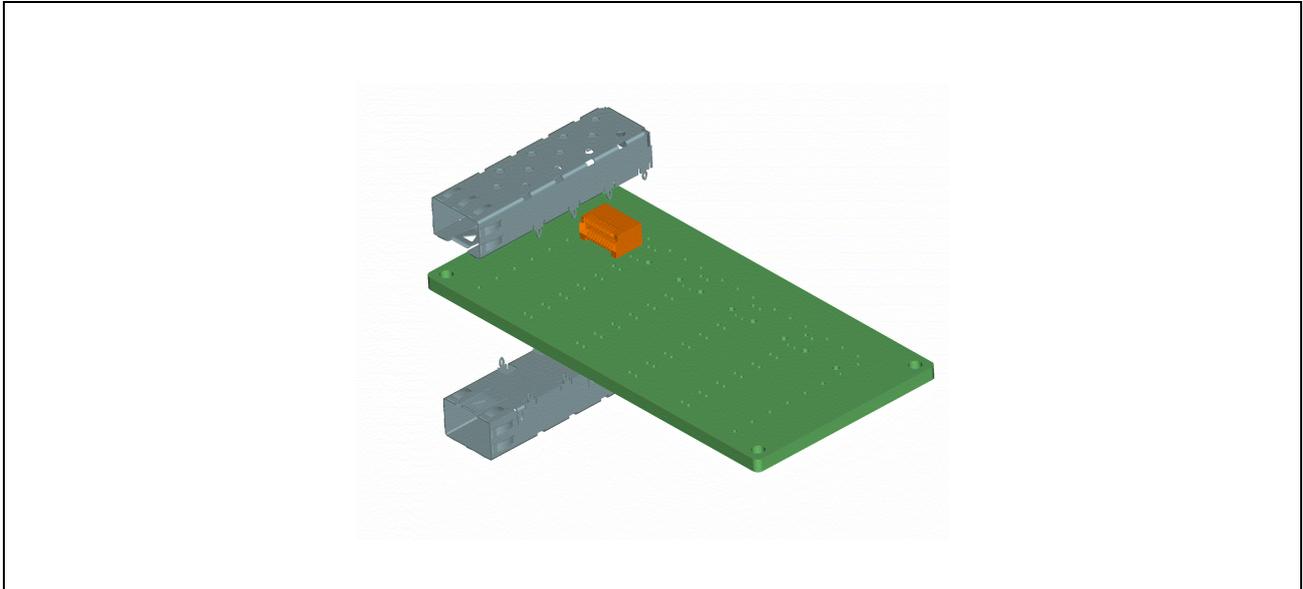


Figure 6

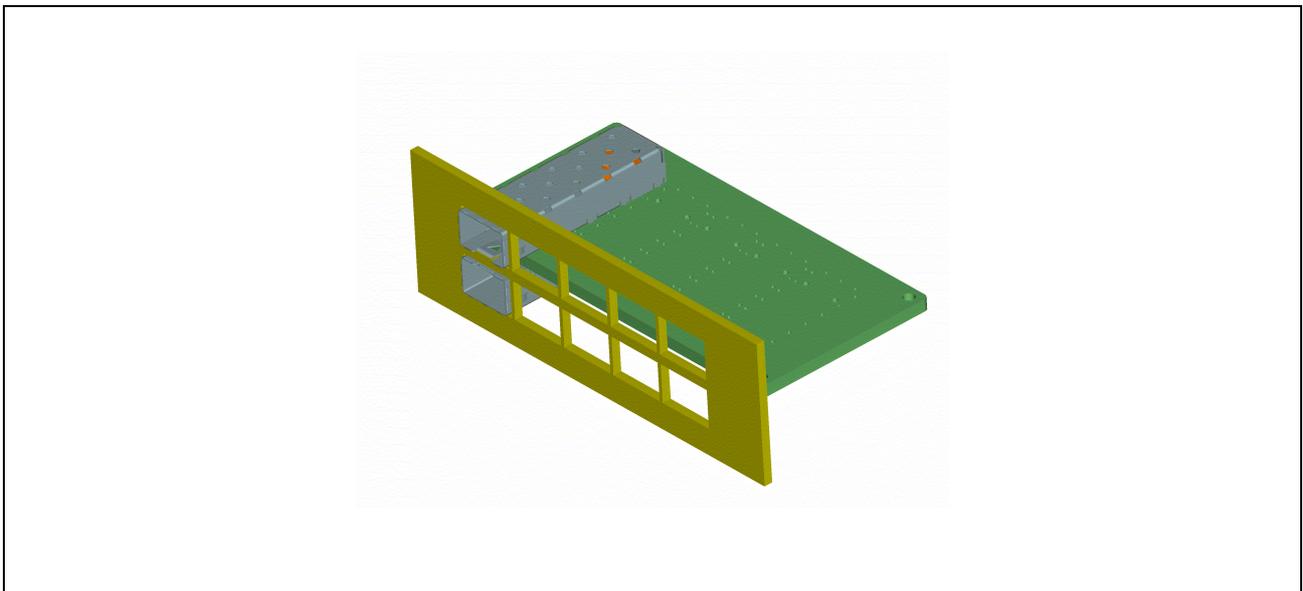


Figure 7

Package Outlines

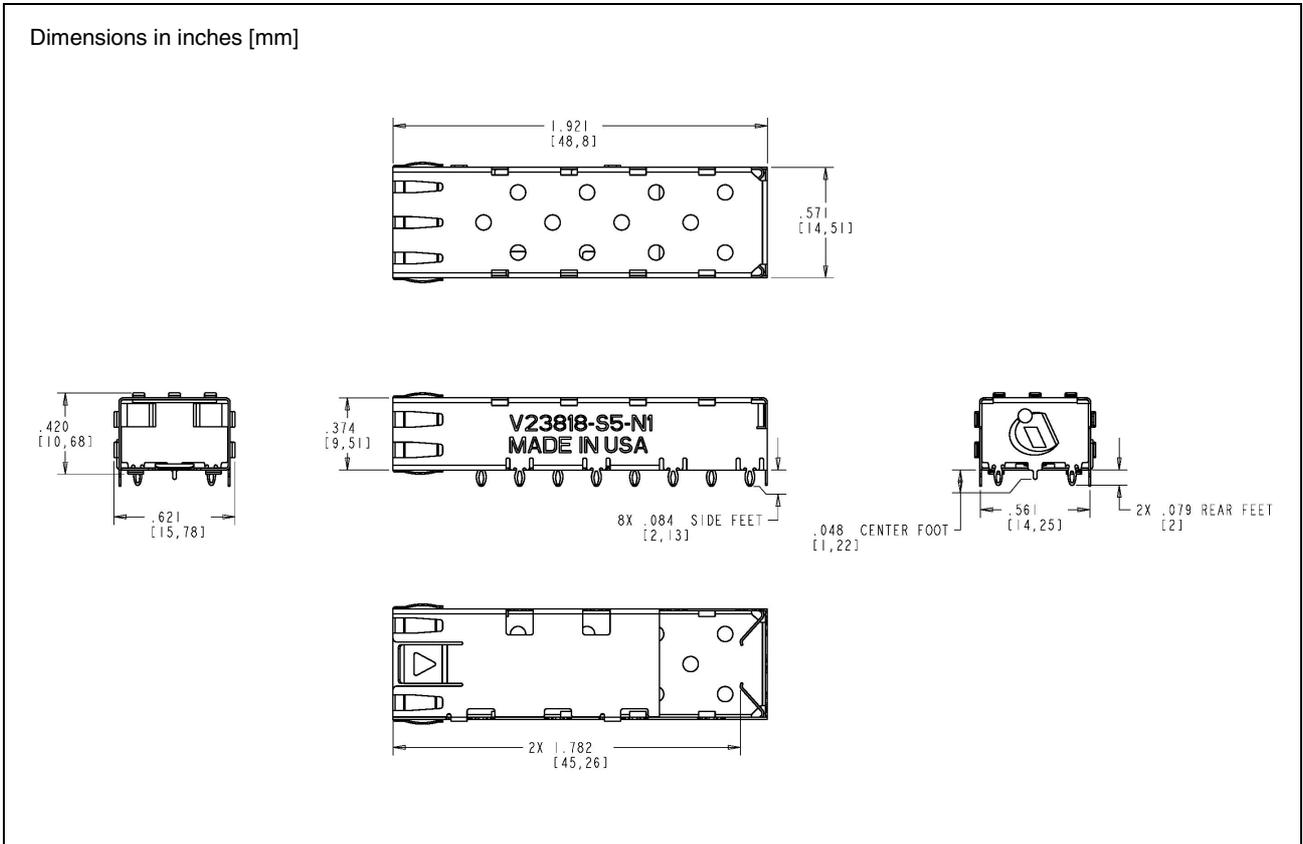


Figure 8

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**V23818-S5-N1**

**V23818-S5-N1-BB**

**Revision History: 2002-10-07**

**DS0**

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Previous Version:

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<b>Page</b>	<b>Subjects (major changes since last revision)</b>

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