



PL-KP2-00-000-05



Key Features

- Compatible with all MSA compliant SFP transceivers and PWB layouts for single and double sided applications
 - Robust one piece design
 - PCI compliant and solder-down version also available
 - RoHS compliant and lead-free

Applications

- Switch and hub devices
- Mass storage systems interconnect
- · Host adapter cards
- Enterprise switch interconnects

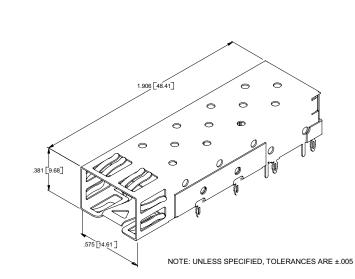
The unique one-piece, pluggable, press-fit cage represents one of JDSU's complementary products to the Small Form Factor Pluggable (SFP) transceivers. Optimized for use with all transceiver products complying with the SFP multisource agreement (MSA), the cage design allows for low-cost implementation using standard manufacturing processes. Its hardened spring-tempered material, plus excellent material memory characteristics, further provide for consistent transceiver mate/de-mate performance that provides for port flexibility over the life of the system.

Highlights

- Industry's most robust and sturdy cage design optimized for all SFP applications, including Fibre Channel, Gigabit Ethernet, and SONET
- Supports all industry SFP transceivers, using MSA-compliant board layouts and hole sizes for single and double sided applications
- Extensive compatibility testing with industry-wide MSA-based modules for interoperability in multiple vendor implementation
- One piece design offers superior mechanical stability, simplifying implementation to customer PCBs
- Tested for common applications and standard industry processes to allow seamless integration into manufacturing without additional equipment or requirements
- Excellent material memory characteristics provide for high cage retention to PWB, reducing field failures due to cage pull up

Features

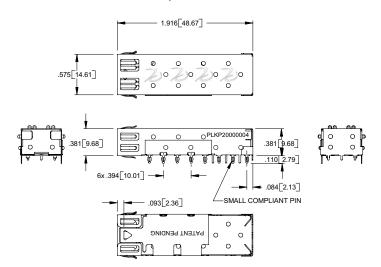
- RoHS-compliant and lead-free
- Proven SFP MSA compliant transceiver cage
- Supports MSA compliant board layout and hole sizes
- Tested for insertion force and retention
- PCI compatible version available
- Supports multiple system configurations
- · Belly-to-belly or dual sided boards
- Robust manufacturing process
- Sturdy construction
- · Hardened spring tempered alloy
- One piece metal design
- Cage retention strength of 27 lbs
- Simple assembly
- Utilizes common manufacturing equipment and processes
- Press-fit attachment before or after soldering
- 360 degree EMI contact fingers
- Low emission design
- FCC Class B compliant



The PL-KP2-00-000-05 press-fit cage accommodates all MSA-compliant SFP transceivers, and is ideally suited for application on printed wiring board (PWB) with a minimum thickness of 0.062 inches. The excellent material memory characteristics provide high cage retention to the PWB, resulting in fewer field failures.

Section 1 Functional Description

The press Fit Cage is designed in compliance with the Small Form Factor Pluggable (SFP) Transceiver Multisource Agreement (MSA) See Figure 1. PL-KP2-00-000-05 may be used with both the single-sided PWB layout and the double-sided PWB layout and double-sided offset PWB layout.



NOTE: UNLESS SPECIFIED, TOLERANCES ARE ±.005

Figure 1 Standard press-fit cage mechanical drawing (PL-KP2-00-000-05)

The double-sided PWB layout allows for one cage on the topside of the card and one on the bottom side that is directly under the topside cage (called belly-to-belly) (See Figure 2, Figure 3 and Figure 4). The pins are staggered to avoid interference upon installation. The PWB must be a minimum of .125" thick for Belly-to-Belly Applications.

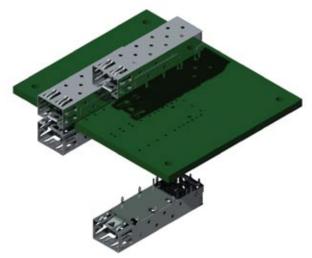


Figure 2 Belly-to-belly mounting

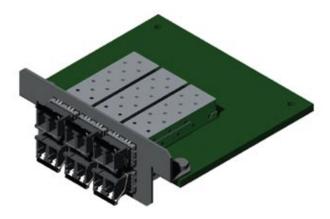
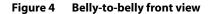
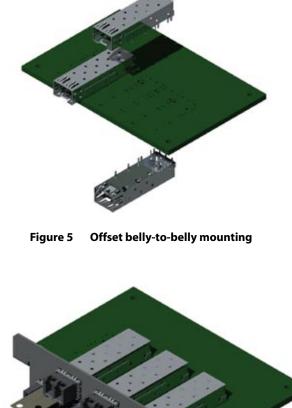


Figure 3 Belly-to-belly mounting





The double-sided offset PWB layout allows for cages on both sides of the PWB, but staggered to allow more room for finger access between the units (offset bellyto-belly) (See Figure 5, Figure 6 and Figure 7). The PWB must be a minimum of 0.125" thick for Offset Belly to Belly applications.



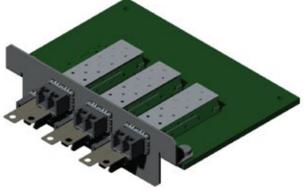


Figure 6 Offset belly-to-belly mounting







Section 2 Installation Guide

These cages are designed to be pressed into a PWB with an insertion force of about 60 lbs total (Each of the 8 press fit pins require an approximate force of 7.5 lbs/pin). For best installation, a solid piece of stainless steel or similar metal should be placed flat across the top surface of the cage.

Care should be taken not to twist or tilt the cage during the installation process. Excessive force will result in damage to the unit. A press machine similar to the MEP-6T/12T manufactured by Automated Services Group, West Palm Beach, FL would be fine for cage installation.

Cage removal is very easy. Simply insert a flat metal bar or similar object into the cage assembly and lift it up off the PWB. It takes 27 lbs to remove a cage from a PWB. Actual insertion and removal force may vary depending on plating material and finished hole size.

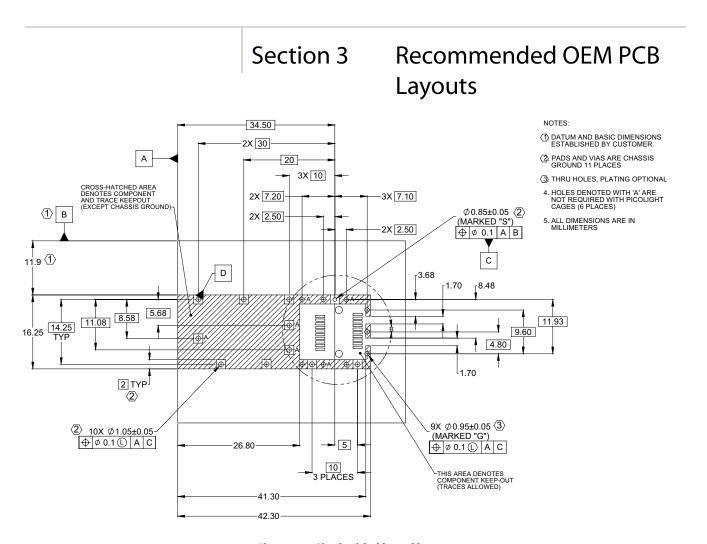
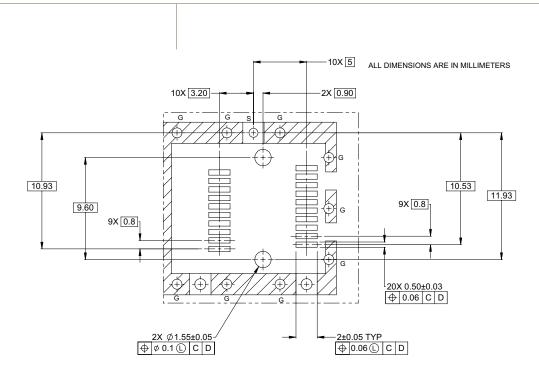
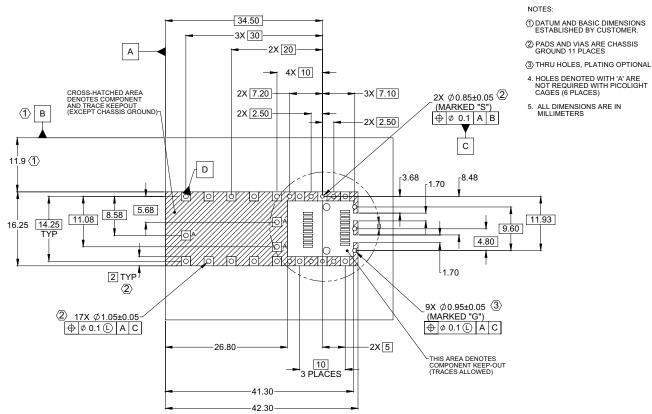


Figure 8 Single sided board layout







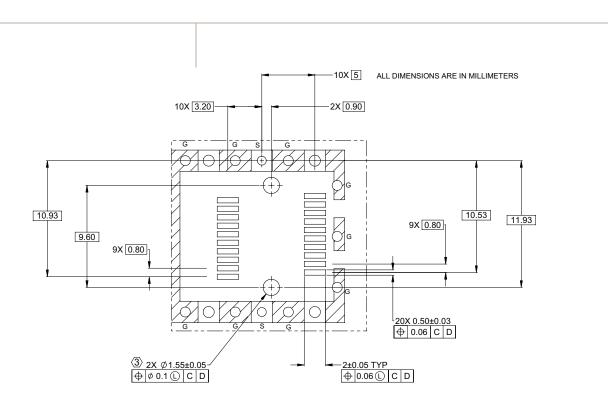


Double sided board layout Figure 10

(1) DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

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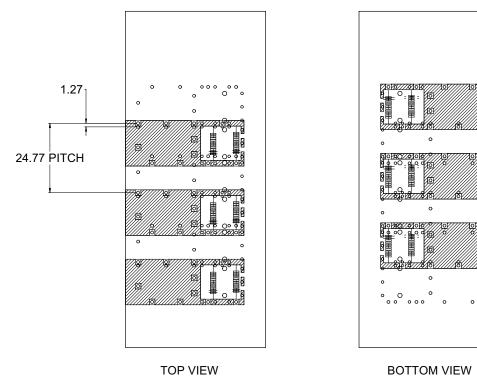
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DIMENSIONS ARE IN MILLIMETERS

Figure 12 Double sided offset layout





Section 4 Package and Handling Instructions

The PL-KP2-00-000-05 cages are packaged in card board boxes. Each box has 10 layers of 35 cages in plastic trays. There are 350 cages per box.

Flammability

The PL-KP2-00-000-05 press-fit cage and EMI cage plug are made from C77000 sheet metal.

Order Information	

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: PL-KP2-00-000-05

 Part Number
 Description

 PL-KP2-00-000-05
 8 pin press-fit cage