

CFP2 1xN Cage Assembly, Heat Sink, Heat Sink Clip, and Connector Cover

Amphenol

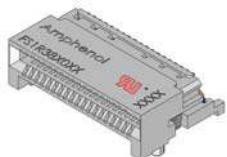
Product Specification S6080C Rev 1.0

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About Amphenol Commercial Products
Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.

Related Products

QSFP+



38 POSITION CONNECTOR



THRU THE BEZEL CAGE ASSEMBLY WITH HEAT SINK



1x3 BEHIND THE BEZEL CAGE ASSEMBLY WITH HEAT SINK AND LIGHT PIPES

CXP



CAGE AND CONNECTOR ASSEMBLY WITH ROUND PIN HEAT SINK AND ELASTOMER GASKET



CFP2 1x1 U98-B121-X00X
CAGE ASSEMBLY WITH HEAT SINK AND CONNECTOR COVER

CFP2 1x2 U98-B221-X00X
CAGE ASSEMBLY WITH HEAT SINK AND CONNECTOR COVER

CFP2 1x1 U98-B111-X0AX
CAGE ASSEMBLY WITHOUT HEAT SINK OR CONNECTOR COVER

CFP2 1x2 U98-B211-X0AX
CAGE ASSEMBLY WITHOUT HEAT SINK OR CONNECTOR COVER

Overview

This short form Product Specification defines the general use and performance parameters for Amphenol's CFP2 series 1xN cage assembly.

Availability: 1x1 and 1x2 cages with heat sink and heat sink cage

Usage

The connector system is capable of data rates up to 10 Gbps per channel (up to 10 channels) or 25 Gbps per channel (up to 8 channels) and is intended for external connections (104 positions per port) using active cabling.

Applications

Intended for use in high speed serial interconnect applications such as:

- Clusters
- Servers
- Storage devices

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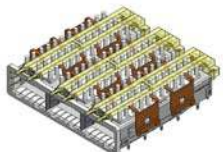
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General Requirements

- RoHS compliant
- Footprint compatible with other industry suppliers
- Press-fit cage and connector combo for minimum 3.00 mm (0.118in) PCB thickness in belly-to-belly application
- Cages are tray packed
- Dust cover for front face is available (bulk packed)
- Proper support for cage is required during insertion into PCB
- Extraction tool required for removing the combo from PCB (consult factory)

Connector Electrical Characteristics

- Operating Voltage: 3.3V
- Operating Current: 1.875A

Connector Mechanical Characteristics

- Insertion Force: 80 N
- Withdrawal Force: 50 N
- Durability: 200 mating cycles

Material Requirements

Unless otherwise specified, the materials for each component shall be:

- Cage: Copper alloy, matte tin over nickel or nickel only plating
- Heat Sink: Aluminum alloy, anodized or nickel plated
- Heat Sink Clip: Steel alloy
- Connector Cover: Zinc alloy, nickel plated

- Temperature rise: Meets the requirement of 30° C ΔT
- Operating and storage temperature: -40° to +85° C

Process Characteristics

- Cage assembly is press-fit to customer PCB
- Connector cover is screw-mounted

PCB Specifications

Compliant Pin Holes must be drilled and plated through to specific dimensions to prevent damage during placement of cage assembly on the PCB. See table below.

Recommended torque for connector cover mounting screws is 0.90±0.10 in·lb

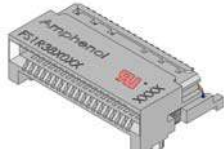
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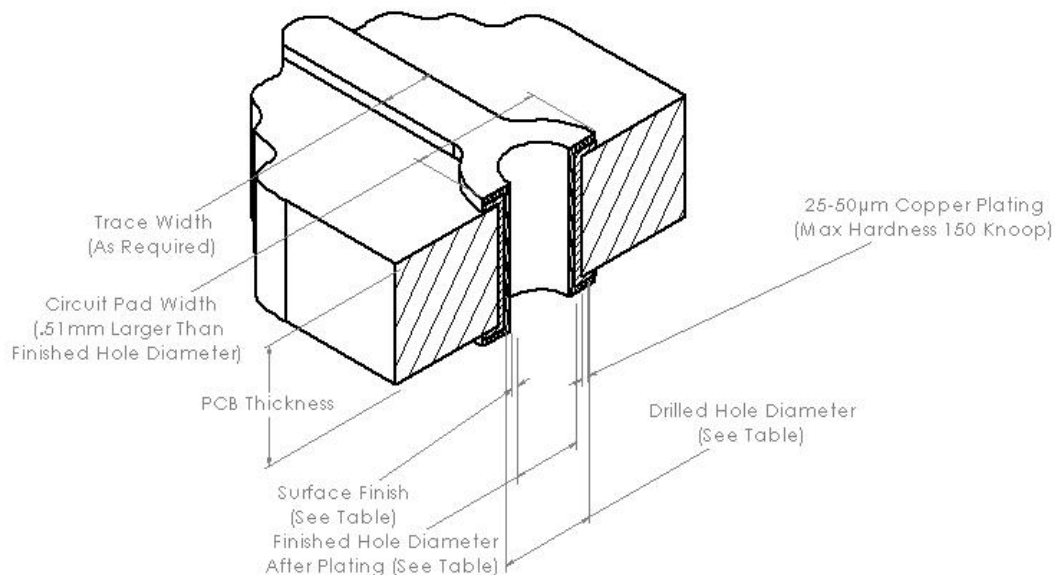


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Drawing Not to Scale

Surface Finish	Drilled Hole Diameter	Finished Hole Diameter	Surface Finish Thickness
HASL SnPb	1.15±0.02	1.05 Ref	0.004-0.010
Immersion Sn	1.15±0.02	1.05 Ref	0.0005 Min.
OSP	1.15±0.02	1.05 Ref	0.0002-0.0005
Immersion Au/Ni	1.15±0.02	1.05 Ref	0.004-0.0076 (Ni) 0.0001-0.0005 (Au)

Available Documents

Drawing Numbers:

P-U98-B1X1-X0XX

CFP2 series 1x1 cage assembly

P-U98-B2X1-X0XX

CFP2 series 1x2 cage assembly

Contact factory or Authorized Amphenol representative for alternate configurations

Amphenol Canada Corp.
605 Milner Avenue
Toronto, Ontario, Canada, M1B 5X6
+1 416 291 4401

www.amphenolcanada.com

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