

## Amphenol ICC

# SFP

Amphenol ICC's SFP product family supports applications for up to 6Gb/s per channel. The connector accepts multiple transceivers per INF-8074i and combines, transmits, and receives functions in a low cost, compact format. The assemblies are designed to maximize valuable space on the PCB. The cages have a two-piece construction with enhanced transceiver mating tabs available in a Press-Fit version or a solder tail version. Light pipes are designed to deliver a "link" or "no link" status using LEDs attached on the PCB.

## **TECHNICAL INFORMATION**

#### MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin or gold flash options
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

#### **MECHANICAL PERFORMANCE**

- Durability: 250 mating cycles
- Mating Force: 50 N max.
- Contact Normal Force: 100 grams
- PCB Thickness Solder-Post and Press-Fit (Cage): 1.45 mm (0.057in.)
- PCB Thickness Belly to Belly (Cage): 3.00 mm (0.118in.)
- Unmating Force (Cage): 11.50 N max.
- Insertion Force to PCB (Cage):
- 500 N for 1 port (1x1 cage)
- 1000 N for 2 port (1x2 cage)
- 2100 N for 4 port (1x4 cage)
- 3000 N for 6 port (1x6 cage)

#### **ELECTRICAL PERFORMANCE**

• Operating Voltage: 30 VDC per contact

**TARGET MARKETS** 

- Operating Current: 0.5 A per contact
- Differential Impedance:  $100\Omega + 10\Omega$

#### **ENVIRONMENTAL**

- Operating and (Storage) Temperature: -55° to +85°C
- RoHS & Halogen-Free

#### **TOOLING INFORMATION**

- Configurations:
- 1XN (N = 1,2,3,4,6)
- 2XN (N = 1,2,4,5,6,8)

#### **TARGET MARKETS/APPLICATIONS**



Cellular Infrastructure Network Interface

Hubs Servers Storage

Test and Measurement Equipment

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SFP Connector



#### SFP Cage

0	U77	x	х	x	x	x	x	X	(	x	х	Packaging
												1 Tray (ACC Re-Packed)
Style												T Tape & Reel (1X1 Only)
A 1Row												A Heat Sink Shipped Assembled (1X1 Only)
C 1 Row Cage; Light Pipe Combo (Top)												Option 1
E 1 Row Cage; Heat Sink Combo (Fin)												0 Standard
F 1 Row Cage; 1° Angle (1X1 Only)												1 Cage with Light Pipe on Top
Number of Ports in row												8 Cage with Half-Moon Mid G-Pins
1 Single in Row 2 Inline 1X2												Dust Cover Option
4 Inline 1X4												0 Without Dust Cover
8 Inline 1X6												D With Dust Cover (Shipped Loose)
Chassis Grounding							l					Plating
1 Metal Grounding Tabs												1 Bright Tin (for Wave Solder)
2 Inner & Outer Flexible Spring Fingers												2 Nickel
												3 Matte Tin (for Reflow 245°)
Heat Sink / Light Pipe												PCB Mounting
1 No Heat Sink / Light Pipe												X Various Options Available – Consult Factory
2 Heat Sink												A various options Available - consult l'actory
3 Light Pipe (1XN Cage Only)												



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#### Disclaimer