

# CARD EDGE PRODUCT FAMILY

## MXM



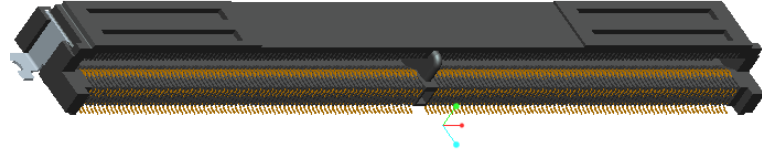
MXM connector is a high-density PCIe® solution that supports next-generation server system architectures. These are non-proprietary, industry standard sockets. This helps to upgrade the graphics processor in a device, without changing the whole system or relying on proprietary vendor upgrades. With 0.50mm pitch and 314 contacts, the MXM 3.0 connector supports 16 lanes PCI Express® signal performance with smaller board space. Typical applications include notebook computers, blade and standard rack-mount servers, mobile workstations and alternative form factor PCs including all-in-one home theater, and small form factor PCs.

Accommodates up to 16 lanes on PCIe® 2.0

Supports up to 8 DDR2, DDR3, GDDR3 or GDDR5

Up to 4 Dual-MODE DisplayPorts supporting DVI and HDMI

Single 24-bit dual-link LVDS, dual-link DVI and HDMI  
Single VGA and TV-out



MXM 6H 0.50 PITCH 314P  
SMT TYPE

## TARGET MARKET

- Server
- Storage
- Network interface card

## FEATURES

- Card edge connector with 314 contacts on a 0.50mm pitch
- Compliant with PCIe® 3.0
- Small Form Factor 0.50mm pitch solution
- Supports both single and double-sided modules
- Current: 0.5 A Min.

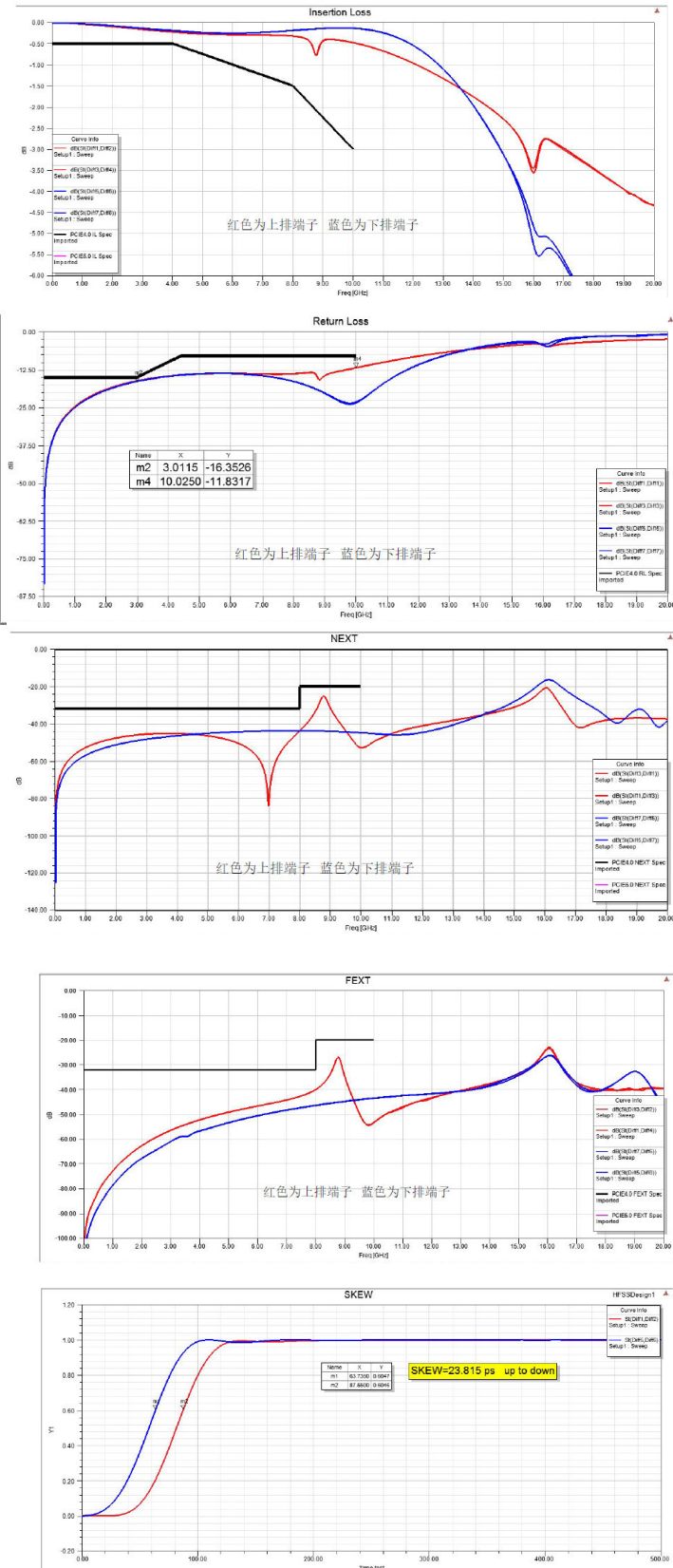
## BENEFIT

- Fully compliant with MXM 3.0 specification
- Serves multiple high-speed peripheral applications
- Saves board space
- Enables higher data rate transmission



## TECHNICAL INFORMATION

### SIGNAL INTEGRITY PERFORMANCE



### MECHANICAL PERFORMANCE

- Insertion force 4.5Kgf Max
- Unmating force: 1.6Kgf Min.
- Durability: 30cycles.

### ELECTRICAL PERFORMANCE

- Low level contact resistance: 50mΩ initial,  $\Delta$ 25mΩ
- Insulation resistance: [ 250 ] M Ohm Min.( Mated)  
[ 50 ] M Ohm Min.(UnMated)

Dielectric withstanding voltage: 300VAC.

- Current rating: 0.5 A per pin MIN

### ENVIRONMENTAL

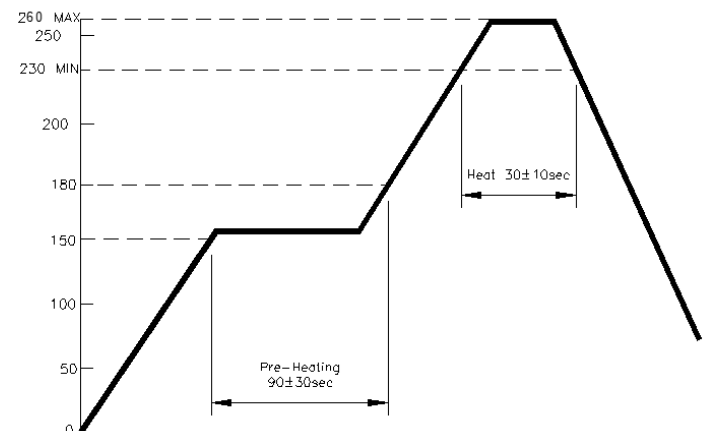
- Flammability: UL 94 V-0
- Low halogen: 1000ppm max. Cl, 1000ppm max Br.
- Compliant with RoHS directive 2011/65/EU
- Operating Temperature: -55° C to + 85° C
- Thermal shock: 5 cycles between -55° C to +85° C
- Temperature life: 105° C for 168 hours.

### SPECIFICATION

- SPEC:  
DR-PS-0021

### APPLICATION SPEC

- Reflow temperature profile:



- Recommended stencil thickness: 0.12mm

### PART NUMBERS & STRUCTURE

#### MXM 5.5&6.0H 314P

##### Part Number Description:

