

# eHPCE<sup>®</sup> Enhanced High Power Card Edge Connectors

## CLASSIC HPCE<sup>®</sup> WITH ENHANCED PERFORMANCE

eHPCE<sup>®</sup> connectors offer a 15% increase in power density with the same footprint as classic HPCE<sup>®</sup>. The all-new power contact design offers lower contact resistance and higher current carrying capacity compared to classic HPCE<sup>®</sup> connectors. eHPCE<sup>®</sup> connectors are designed to extend the life of power supplies using card edge output power connectors.

- Same mating footprint as classic HPCE<sup>®</sup>
- Enhanced housing design
- GCS<sup>®</sup> plated contacts deliver lower resistance than gold
- Maximum continuous operating temperature increased to +85°C
- Low-halogen housing material
- Vertical, right angle and straddle mount configurations available

**NEW**



### TARGET MARKETS



### FEATURES

- GCS<sup>®</sup> plating technology
- Current rating up to 48A per contact at 30°C temperature rise in still air
- 20% thicker contact material
- 50% more points of contact
- Enhanced housing design
- Low-halogen housing
- Vertical, right angle and straddle mount configurations available
- High temperature thermoplastic housing

### BENEFITS

- Provides lower resistance
- Higher performance with same mating footprint as classic HPCE<sup>®</sup>
- Enables 15% increase in power density
- Better mechanical alignment and increased robustness
- Meets JEDEC JS709 Electronic Industry Standard
- Suitable for a wide variety of application requirements
- Wide operating temperature from -55°C to +105°C

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High Temperature Thermoplastic, UL 94 V-0, Blue
- Terminal: High Conductivity Copper Alloy
- Contact Area
  - Power: GCS® plating over Nickel
  - Signal: GXT® plating over Nickel

### MECHANICAL PERFORMANCE

- Contact Wipe Distance: 4.8mm (power), 3.5mm (signal)
- Durability: 200 mating cycles
- Mating Force: 10N per Ultra-power contact, 5N per Mid-power contact

### ELECTRICAL PERFORMANCE

- Current Rating: Up to 48A per contact (30°C temperature rise in still air)
- Operating Voltage: 250V (power), 30V (signal)
- Dielectric Withstanding Voltage: 1000V

### ENVIRONMENTAL

- Operating Temperature: -55°C to +105°C
- RoHS Information: this product is compatible according to the European Union Directive 2011/65/EU

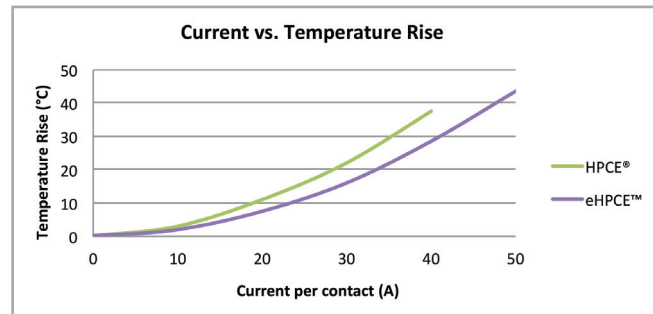
### SPECIFICATIONS

- Product Specification: GS-12-1362
- Application Specification: GS-20-0469

### PACKAGING

- Trays

### TEMPERATURE RISE CURVE



### TARGET MARKETS/APPLICATIONS



Datacom/Networking Equipment  
Switches  
Telecom



Industrial PCs  
Industrial Controls & Instruments



Medical

## PART NUMBERS

Description	Part Numbers
eHPCE® right angle, 22MP16S	10139371-2216GLF
eHPCE® vertical, press-fit, 16MP28S	10141274-001LF
eHPCE® vertical, press-fit, 6MP12S	10141274-002LF