

eHPCE[®] Enhanced High Power Card Edge Connectors

Configured Part Number: 10137755-001020ALF

PN (Part Number)	10137755-001020ALF
SERIES (Base Number)	eHPCE
TYPE1 (Connector Type)	Receptacle - Straddle Mount (STMT)
UPC (Ultra Power Contacts)	00
PC (Power Contacts)	10
SC (Signal Contacts)	20
PKO (Polarization Key Option)	Y - Yes
TLG (Tail Length / mm)	Not Available
TT (Tail Type)	Not Available
ME (Mounting Ears)	Y - Yes
RG (Rear Guide)	Y - Yes
COL ()	Not Available
HPT (Host PCB Thickness / mm)	0
A (Dim A / mm)	55.3
B (Dim B / mm)	42.22
C (Dim C / mm)	47.8

Interactive 3D graphic, click to activate and rotate.

CLASSIC HPCE[®] WITH ENHANCED PERFORMANCE

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

- Same mating footprint as classic HPCE[®]
- Enhanced housing design
- GCS[®] 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





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 42A per contact (30°C temperature rise in still air)
- Operating Voltage: 250V (power), 30V (signal)
- Dielectric Withstanding Voltage: 1000V

ENVIROMENTAL

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

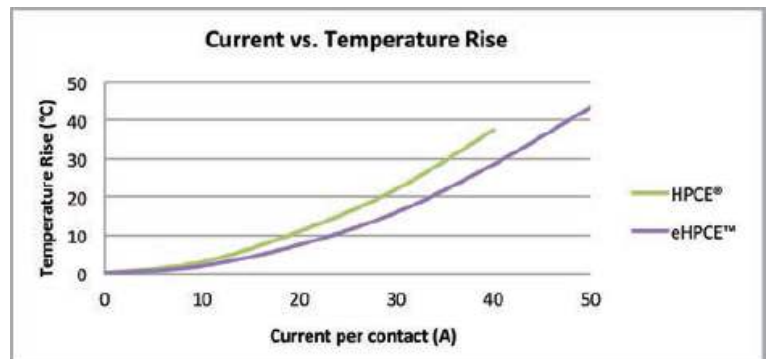
SPECIFICATIONS

- 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

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