

DUAL CROWN CLIP Sockets

Part Number 1643902-1

Product Specifications

Materials

Insulator: Polyester, UL 94V-0

Crown Band: Beryllium copper alloy, selectively plated with gold (30 µin minimum), over nickel

Crown Holder: Copper alloy

Electrical

Current Rating, Steady State:

Nickel plated solid tab: 350 Amp maximum; 225 Amp at 30°C maximum temperature rise

Current Rating, Steady State:

Laminated bus bar tab: 130 Amp per side (260 A total) maximum; 75 Amp per side (150 A total) at 30°C maximum temperature rise

Current Rating, Hot Plug: Gold plated solid tab: 200 Amp maximum, 5V; 100 Amp maximum, 60V

Mechanical

Insertion Force: 20.0 lbs (9.08 Kg) typical

Extraction Force: 13.0 lbs (5.9 Kg) typical

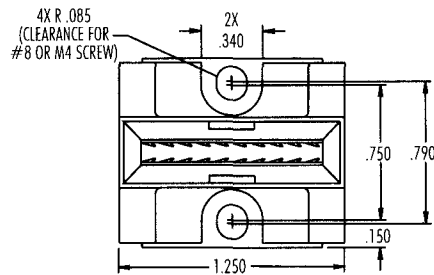
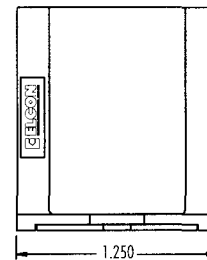
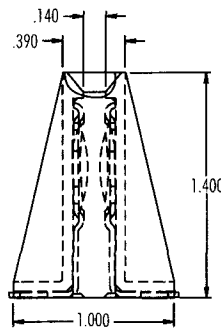
Dual Pole, Feed-through Socket design delivers 350 Amp current capability plus current interruption. The Dual Pole contact design allows mating to a two pole laminated bus bar or double sided PCB tab, adding design flexibility by providing feed and return using a single socket. The Feed-through design aspect allows insertion of mating

blade from both top and bottom of socket. The contacts include ELCON CROWN BAND contact elements to ensure low voltage drop and heat generation, plus consistent insertion and extraction forces. Current interruption ratings are 100A at 60V and 200A at 5V, both using a gold plated, solid tab.



Feed-Thru View

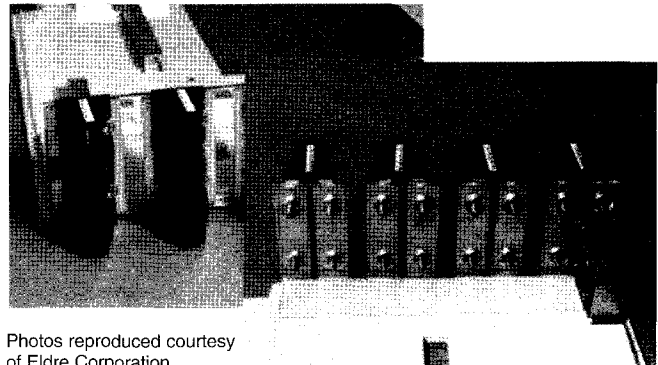
Customer Drawing available upon request.



Bus Bar Products

Sample Application

ELCON Dual CROWN CLIP connectors mounted on a laminated power distribution bus bar in a large server.



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