

MGH SERIES PROFESSIONAL QUALITY / FIXED CONTACTS MICROMINIATURE CIRCLE HEX CONNECTORS

Circle Hex

Size 22 Signal/Power Contacts

High Performance Construction

Polarization and Locking Accessories

UL Recognized File #E49351

MGH series connectors are microminiature, high reliability connectors. They are available with three contacts for providing polarization: two contacts at 0.030 inch [0.76 mm] diameter, and one contact at 0.040 inch [1.02 mm] diameter. The MGH series is rated to 5 amperes per contact. Spacing between contacts is 0.102 inch [2.59 mm], and the face diameter of the connector is 0.312 inch [7.92 mm].

MGH series connectors are ideally applied where limited space is a concern. MGH series connectors



can be used as cable connectors, panel-mounted connectors, or probes. Constructed of high performance materials, MGH series connectors are widely used in medical, industrial, military, and automotive applications.



TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass-filled DAP per ASTM-D-5948,

Type SDG-F. Green color is

standard.

Contacts: Precision machined copper alloy.

Contact Plating: Gold flash over nickel.

Hoods: Aluminum with yellow or black

anodize.

Lock Rings and Lock Springs: Copper alloy with zinc plate and

chromate seal.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Two (2) size 22 contacts, male -

0.030 inch [0.76 mm] diameter, and one (1) size 20 contact, male - 0.040 inch [1.02mm] diameter. Female contact - open entry.

Contact Retention in Insulator: 6 lbs. [26.5 N], minimum.

Contact Termination: Solder cup - 0.027 inch [0.69mm]

hole diameter for 24 AWG [0.25mm²] wire maximum.

Locking Systems: Friction, lock spring with lock ring.

Polarization: 0.040 inch [1.02 mm] diameter

male contact in position "A". **Mechanical Operations:** 250 operations per IEC 60512-5.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes.

Initial Contact Resistance:0.012 ohms, maximum.Flash over Voltage:1,500 VAC (rms).Test Voltage:1,000 VAC (rms).Insulation Resistance:5 G ohms, minimum.

Clearance and Creepage

Distance: 0.021 inch [0.53 mm], minimum.

Working Voltage: 600 VAC (rms).

CLIMATIC CHARACTERISTICS:

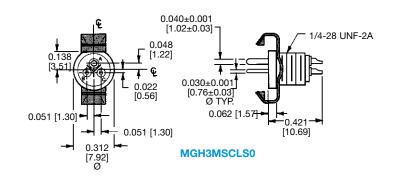
Temperature Range: -55°C to +125°C.

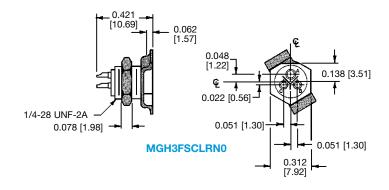
Damp Heat, Steady State: 21 days.

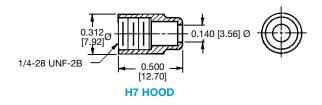
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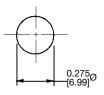
TYPICAL ASSEMBLIES







PANEL CUT-OUT DIMENSIONS





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ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 6

