In addition to the plastic

versions of the 2 piece

edgeboard connectors,

designed and tooled.

a metal shell assembly is

Contact Resistance — The average

with a maximum value of 8 milliohms.

Dielectric Withstanding Voltage -

800 VAC RMS at sea level (600 for solder pots); 200 VAC RMS at 70,000

feet [21,336m] (150 for solder pots).

Durability — Less than the maximum

allowable, 8 milliohms after 500 mating

Insulation Resistance — Greater than

Capacity — No. 24 contact 3 amperes.

unless otherwise specified.

5,000 megohms at room ambient

Maximum Current Carrying

The average resistance value at 100

microvolts is 4.8 milliohms.

cycles.

Dimensions are shown for

temperature.

mated contact resistance is 4 milliohms



MICRODOT MCEM Series Metal Shell Edgeboard Connectors

Metal Shell Edge Board Connectors

- Meets MIL-DTL-55302 performance requirements
- Layouts 128 and 184 are QPL to slash sheets 120, 121, 122 and 123
- Connectors are available in 40, 44, 80, 110, 128, 152, and 184 positions
- Utilizes low force twist pins and our low force sockets. Mating forces in the 3 to 4 oz. [.83 to 1.11N] range per contact are typical with low force pin and low force socket
- Designed for surface mounting and through-theboard mounting
- Available termination
 - Mother board (pin side) cactus bend
 - Daughter board (socket) side) — coke bottle, right-angle bend to "A" or "B" side
 - Solder pots, and variety of other wire terminations for pin and socket connectors available at customer's request
- Two hexagonal polarizing keys (per MIL-DTL-55302 slash sheet 124) are provided. Jackscrew . hardware is available. For programmable keying/ jacking modifications consult TE Connectivity

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Catalog 1308940 Revised 9-14

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reference purposes only. Specifications subject to change.

The metal shells are made areas of high density packalso be provided with conaging and where frequent tacts on .100 [2.54] spacing of aluminum alloy. The insert material is Dially phthalate, connect and disconnects which results in .100 [2.54] Polyphenylene sulfide are required. Designed grid pattern. (RYTON), or Liquid Crystal initially for applications in Polymer (LCP). The techniairborne data recorders, cal and performance data is computers and associated Performance Data Electrical Mechanical

Contact Engaging & Separation

Forces — 5.0 oz. max. [1.39N] (eng.), 0.5 oz. min. [.14N] (sep.).

Environmental

Temperature Range — -67°F to 302°F [-55° C to +150°C] for Diallyl Phthalate; -67°F to 257°F [-55° C to +125°C] for Polyphenylene Sulfide. Vibration — No discontinuity in excess of 1 µ sec. during twelve 20 minute sweeps from 10 to 2000 CPS at .06 double amplitude or 20 G forces, whichever is less.

Materials and Finish

Shells — High grade aluminum alloy, electroless nickel plated per AMS 2404.

equipment in navigational

connector can be ordered

to fit any pattern on the circuit board. The units can

systems. The mother board

Insulator — Diallyl Phthalate per MIL-M-14, Type SDG-F (for 128 & 184); Polyphenylene Sulfide per MIL-M-24519 or ASTM D4067 (for 40, 44, 80, 110 & 152), or Liquid Crystal Polymer per ASTM D5138.

Contacts -

Pin (low force) — beryllium and OFHC copper, gold plated. Socket (low force) — Copper alloy, gold plated.

Hardware — Corrosion resistant stainless steel, passivated.

Dimensions are in millimeters USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com



essentially the same as that

shown for the MCDM Series

rugged, durable connectors

on page 5-72. These are

and are ideal for use in





Dimensions for .062 [1.57] PC Board

No. of Contacts	A ± .010 [± .254]	B ±.005 [±.127]
40	1.750 44.45	1.500 38.10
44	1.850 46.99	1.600 40.64
80	2.750 69.85	2.500 63.50
110	3.500 88.90	3.250 82.55
128	3.950 100.33	3.700 93.98
152	4.550 115.57	4.330 109.98

Note: For PC Boards of different widths, consult TE Connectivity.

Items in bold italic are qualified to MIL-DTL-55302. Configuration shown is per MIL-DTL-55302/120.

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Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 Nanominiature and Microminiature Connectors

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to change.



MICRODOT MCEM Series Metal Shell Edgeboard Connectors (Continued)

Mother Board (Pin Side) *184* Positions



Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

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