

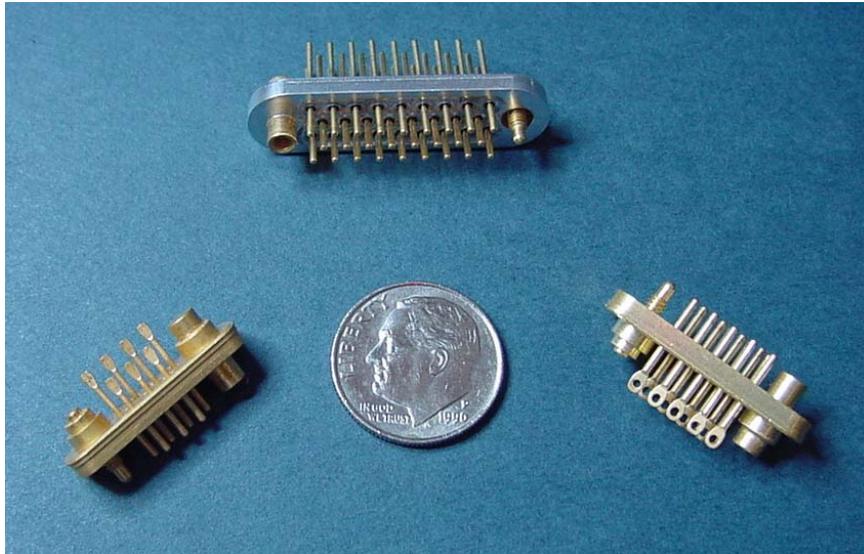


39 Souhegan Street - P.O. Box 269, Wilton, New Hampshire 03086  
TEL (603) 654-2002 FAX (603) 654-2533  
email: sales@shp-seals.com - website: www.shp-seals.com

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**HERMETIC  
MICRO-MINIATURE CONNECTORS**

**PATENTED**  
Canada Patent No. 1,318,371



**ALUMINUM COMPATIBLE  
SOLDERABLE AND WELDABLE PER MIL-DTL-28748/7  
(MATES WITH MIL-DTL-28748/8)**

These "aluminum compatible" connectors utilize special construction features which facilitate reliable hermetic performance in rigorous thermal cyclic environments.

The Solderable connectors utilize high expansion materials as well as unique interface design which in combination reduces solder strain by a minimum of 90%. This low strain assures a long reliable cyclic life for the solder joints.

In the weldable case the body is constructed of a material with matching CTE to the host housing essentially eliminating strain in the weld.

For solderable micro-miniature connectors, see pages 2 and 3.

For weldable micro-miniature connectors, contact SHP.



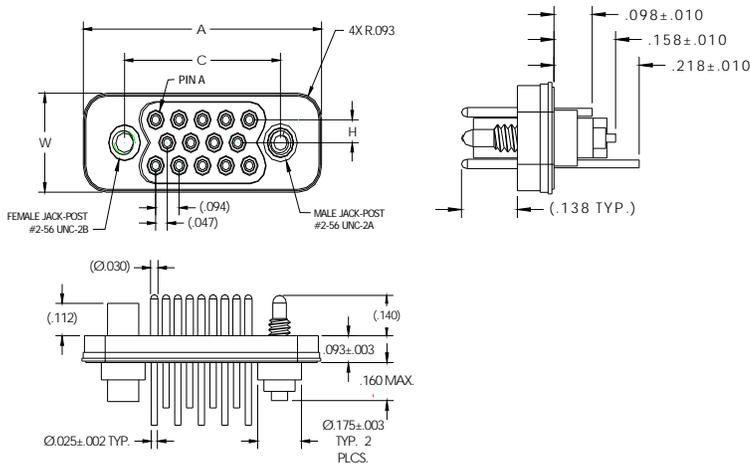
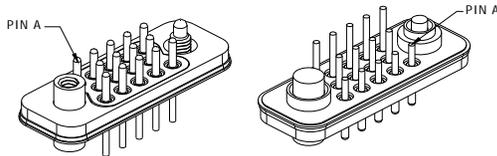
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**ALUMINUM COMPATIBLE  
 SOLDERABLE**



Type: HMMHE per MIL-DTL-28748/7  
 (Mates with MIL-DTL-28748/8)  
 No. of Contacts: 5, 7, 9, 11, 14, 20, 26, 29, 34, 44

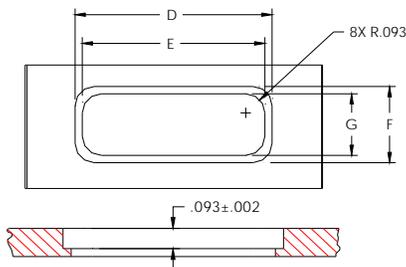
**DESCRIPTION**

This hermetic micro-miniature connector series is designed specifically for use in aluminum housings for severe military temperature environments. Connectors in this series provide compatibility with plugs per MIL-DTL-28748/8. Unlike other connectors made of various steels, these are made of a higher-expansion material which possesses a coefficient of thermal expansion close to that of aluminum. This feature, coupled with a unique geometry which facilitates optimum solder joints and insures reliable hermeticity of the installed connector.

**SPECIFICATION**

- Body - Brass
- Insulation - Glass
- Contacts - Steel
- Plating - 50 microinches minimum GOLD per MIL-G-45204, Type III, Grade A over 200-300 micro-inches Electroless NICKEL per MIL-C-26074.
- Contact Diameter - .030
- Mounting Hardware - Stainless Steel
- Leak Rate - Less than  $1 \times 10^{-8}$  cc/sec @ 1atm (He)
- Temperature - -65°C to +200°C
- Contact Rating - 3 AMPS
- Voltage Breakdown - 500 VAC

**RECOMMENDED INSTALLATION**



**CONNECTOR DIMENSIONS**

DIMENSIONS	5P	7P	9P	11P	14P	20P	26P	29P	34P	44P
A ±.002	.770	.860	.950	.860	.955	1.142	1.330	1.424	1.330	1.580
W ±.002	.270	.270	.270	.350	.350	.350	.350	.350	.460	.460
C Ref	.468	.562	.656	.532	.625	.814	1.000	1.094	1.032	1.281
H Ref	.081	.081	.081	.081	.081	.081	.081	.081	.090	.090
Rows	2	2	2	3	3	3	3	3	4	4

**INSTALLATION DIMENSIONS**

D ±.001	.774	.864	.954	.864	.959	1.146	1.334	1.428	1.334	1.584
E ±.002	.700	.790	.880	.790	.885	1.072	1.260	1.354	1.260	1.510
F ±.001	.274	.274	.274	.354	.354	.354	.354	.354	.464	.464
G ±.002	.220	.220	.220	.300	.300	.300	.300	.300	.410	.410

NOTE: For part number configuration, see page 3.

All dimensions are inches.



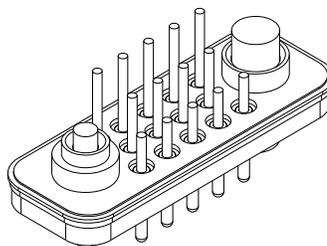
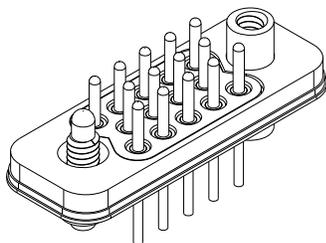
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**HERMETIC  
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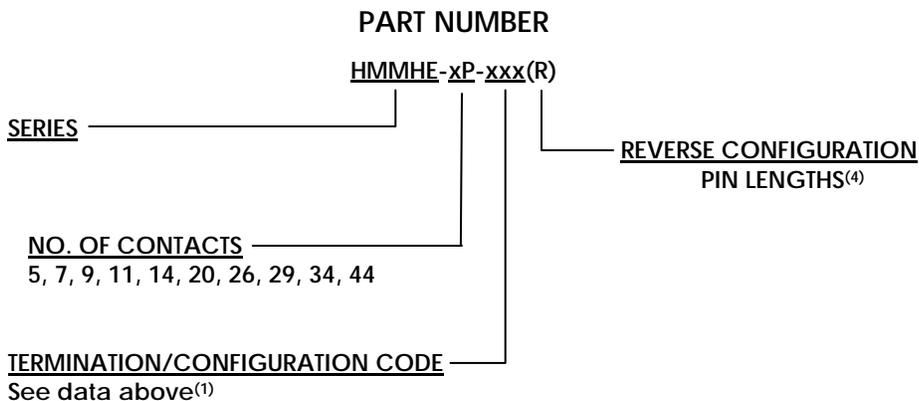
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**ALUMINUM COMPATIBLE  
SOLDERABLE**



TERMINATION/CONFIGURATION CODES								
Uniform			Staggered					
2 & 3 Rows			2 Rows			3 Rows		
STANDARD PIN LENGTHS ±.010								
	.098	.158	.218	.098, .158	.158, .218	.098, .158, .158	.098, .158, .218	.158, .218, .218
Straight Cut	110	120	130	111	113	115	117	119
Flattened	210	220	230	211	213	215	217	219
Flat & Pierce	310	320	330	311	313	315	317	319

Example Part No: HMMHE-14P-215



- Notes: (1) Other lead lengths available.  
 (2) See Bulletin 240 for solder preforms.  
 (3) Solder sleeves available for axial wire attachment. See Bulletin 501.  
 (4) Contact SHP for outline drawing.

All dimensions are inches.