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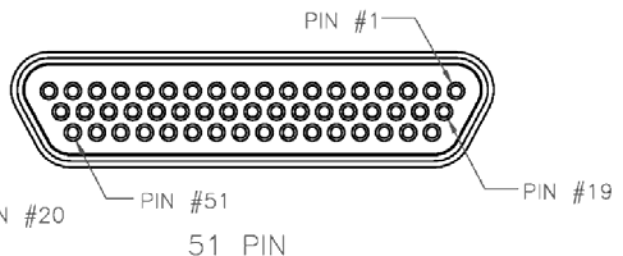
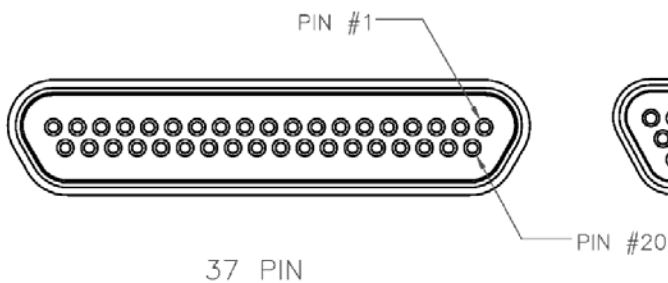
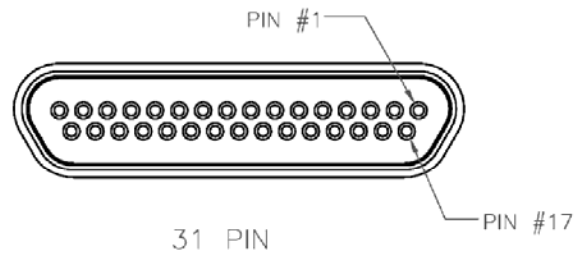
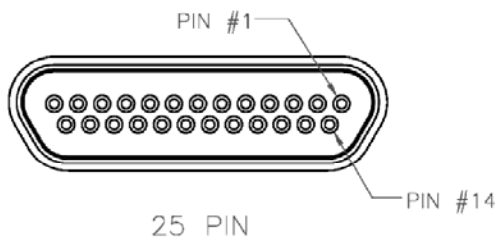
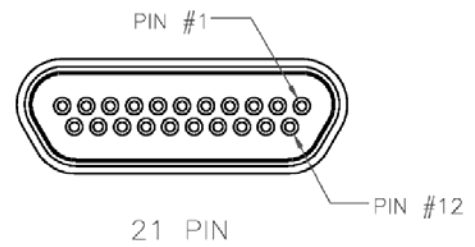
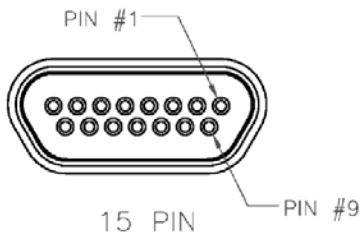
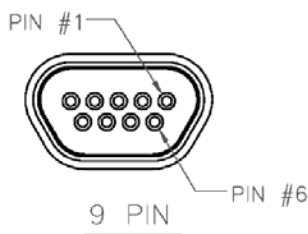
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**HERMETIC
MICRO D CONNECTORS**



Our patented design is based on the same principles as our popular "aluminum compatible" feedthrus which have provided unparalleled reliability in rugged thermal environments for two decades. They are available in a number of configurations, materials and finishes for compatibility with various housing materials, mating connectors and attachment methods. US Patent# 6,821,145.

SPECIFICATION	SOLDERABLE & LASER WELDABLE
Temperature	-65°C - +200°C
DWV (Pin to Ground)	350 Vdc @ S.L.
Contact Rating	3 Amps
Leak Rate	Less than 1 X 10 ⁻⁸ std. cc/sec. at 1 ATM (He)
Mechanical	Interface per MIL-PRF-83513



Note: Socket side view of connector



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HOUSING APPLICATION	ATTACHMENT METHOD	PART NUMBER	NO. OF CONTACTS	CONNECTOR BODY MATERIAL	SHELL FINISH ⁽²⁾
ALUMINUM	Laser Weld	HMMDA-1WDx-xP-xxx-xx	9, 15, 21, 25, 31, 37, 51	4047	CHROMATE
	Solder ⁽³⁾	HMMDA-1SDx-xP-xxx-xx		6061	NICKEL or GOLD
ASTM-F15 (KOVAR)	Laser Weld	HMMDK-1WDx-xP-xxx-xx		ASTM-F15 (KOVAR)	NICKEL
	Solder ⁽³⁾	HMMDK-1SDx-xP-xxx-xx			GOLD
STAINLESS STEEL	Laser Weld	HMMDS-1WDx-xP-xxx-xx		304L	NICKEL or NONE
	Solder ⁽³⁾	HMMDS-1SDx-xP-xxx-xx		303	NICKEL or GOLD

TERMINATION/CONFIGURATION CODES										
	Uniform 2 & 3 Rows			Staggered 2 Rows		Staggered 3 Rows				
Pin Length In. ⁽¹⁾	.109	.159	.209	.109, .159	.159, .209	.109, .159, .159	.109, .159, .209	.159, .209, .209		

TERM. CODE	Pin Length In. ⁽¹⁾	.109	.159	.209	SSC	113	115	SSC	119
	Straight Cut	110	120	130	SSC	113	115	SSC	119
	Machined Flat	NA			SMF	213	NA	SMF	NA

Example Part No: HMMDA-1SD1-21P-130-G1 = 21 Pin connector

PART NUMBER

Standard Pin Terminations

Optional pin flats .015 in. min. square (see SMF above)
 See bulletin 501 for sleeves, available for axial wire/pin splice

HMMDA-1SDx-xP-xxx-xx

HOUSING APPLICATION
 A - Aluminum
 K - Kovar
 S - Stainless

ATTACHMENT METHOD
 1WD - Standard Laser Weldable
 1SD - Standard Solderable

HARDWARE INSTALLATION⁽⁴⁾
 0 - Gasket Separate⁽⁵⁾
 1 - Gasket Installed

NO. OF CONTACTS
 9, 15, 21, 25, 31, 37 or 51 pins

TERMINATION/CONFIGURATION CODE
 See table above

PLATING CODE (SHELL FINISH)⁽²⁾
 C1 - Chromate N1 - Nickel G1 - Gold 00 - None

- Notes:
- (1) These lengths are standard, other lengths and combinations are available.
 - (2) Contact SHP for other plating options.
 - (3) See bulletin 210 for solder preforms.
 - (4) Connectors can ship with or without gasket installed. Please specify.
 - (5) Contact SHP for gasket installation tool.

All dimensions are inches.



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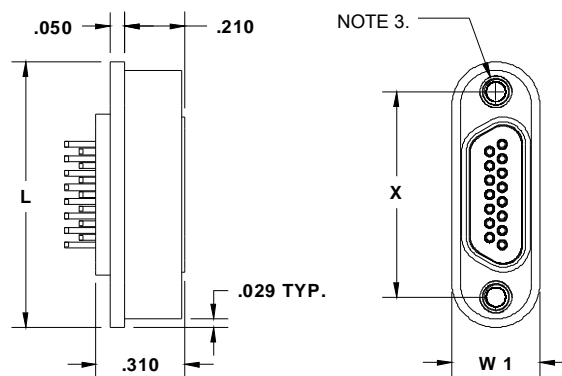
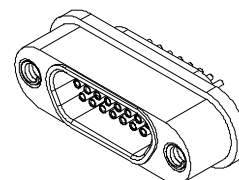
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**HERMETIC
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**PATENTED
US Patent# 6,821,145**

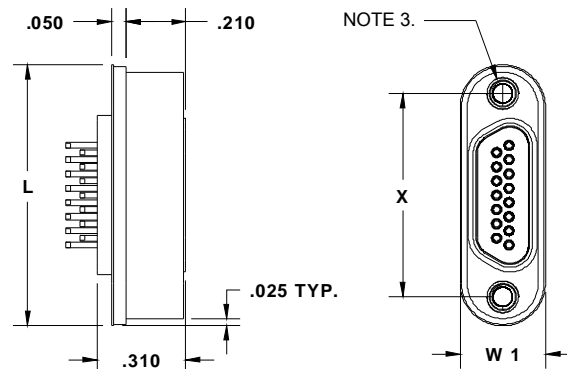
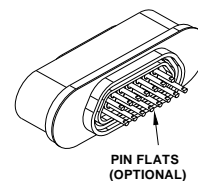
WELDABLE

PINS	Rows	X ±.002	L ±.002	W1 ±.002
9	2	.565	.775	.307
15	2	.715	.925	
21	2	.865	1.075	
25	2	.965	1.175	
31	2	1.115	1.325	
37	2	1.265	1.475	
51	3	1.215	1.425	.350



SOLDERABLE

PINS	Rows	X ±.002	L ±.002	W1 ±.002
9	2	.565	.767	.299
15	2	.715	.917	
21	2	.865	1.067	
25	2	.965	1.167	
31	2	1.115	1.317	
37	2	1.265	1.467	
51	3	1.215	1.417	.342



- NOTES: (1) Dimension 'X' per MIL-PRF-83513 (metal Shell Connectors).
 (2) See Page 2 of Bulletin for Part No. construction.
 (3) Stainless steel thread inserts on aluminum housings; others threaded.
 (4) 51-pin connector has 3 rows of pins per MIL-PRF-83513.

All dimensions are inches.

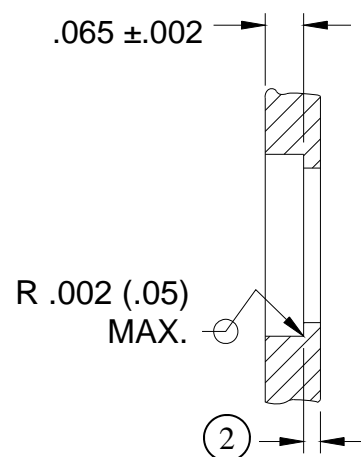
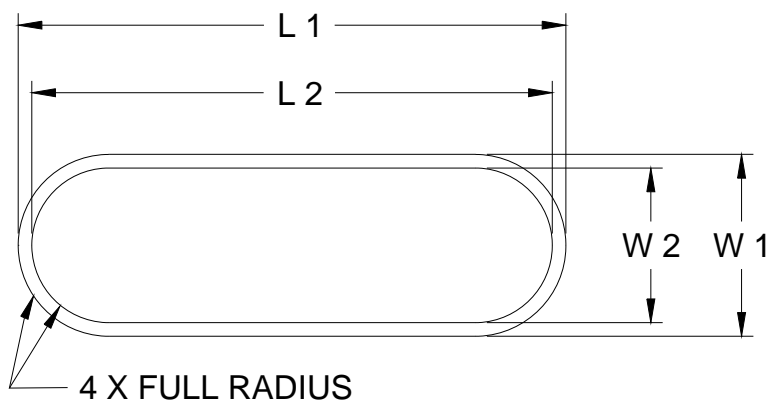


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SOLDER APPLICATION



PINS	L1 ±.001	L2 ±.002	W1 ±.001	W2 ±.002
9	.771	.738	.303	.270
15	.921	.888		
21	1.071	1.038		
25	1.171	1.138		
31	1.321	1.288		
37	1.471	1.438		
51	1.421	1.388	.346	.313

- (1) Tolerances are $\pm .001$ unless otherwise specified.
- (2) This dimension should provide minimal support to connector and sufficient pin protrusion into housing cavity. For thick walls, longer pin lengths are available.

All dimensions are inches.

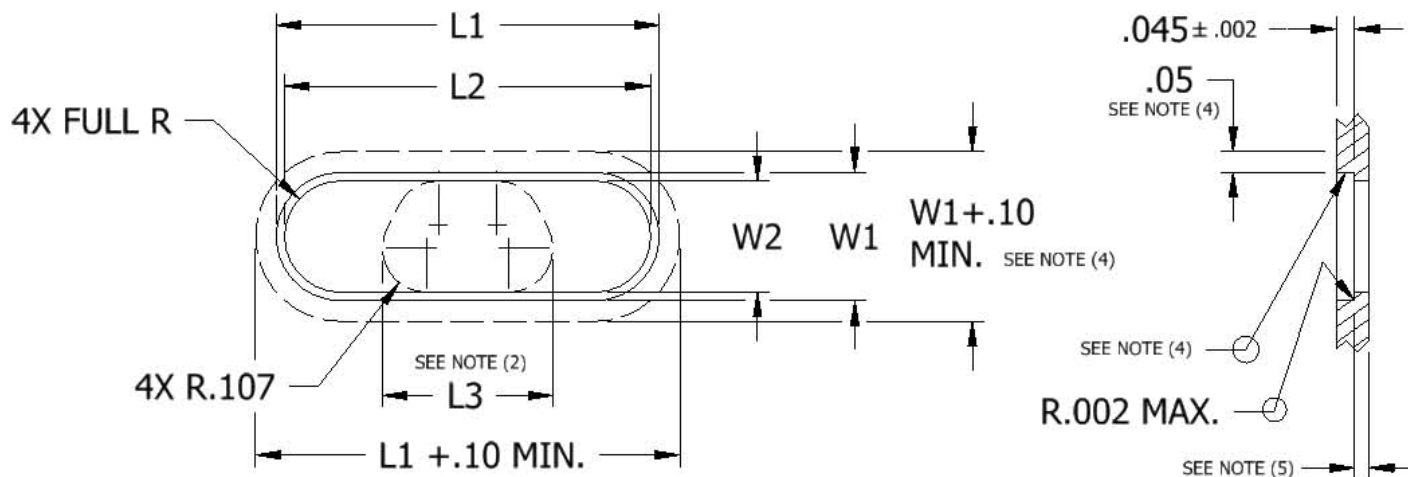


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LASER WELD APPLICATION



PINS	L1 ±.001	L2 ±.002 ^③	L3 ±.002 ^②	W1 ±.001	W2 ±.002 ^③
9	.779	.738	.414	.311	.270
15	.929	.888	.554		
21	1.079	1.038	.714		
25	1.179	1.138	.814		
31	1.329	1.288	.964		
37	1.479	1.438	1.114	.354	.313
51	1.429	1.388	1.164		

- (1) Tolerance is ±.001 unless otherwise specified.
- (2) Optional dimensions for keying.
- (3) L2 & W2 for maximum opening.
- (4) Free of plating, all around.
- (5) This dimension should provide support to connector and sufficient pin protrusion into housing. For thick walls, longer pin lengths are available.

All dimensions are inches.