



We make it ***possible***

AVIONICS RACKING SYSTEMS SOLUTIONS

 | HUTCHINSON®

We make it **possible**

Hutchinson Avionics Racking Systems

Protecting Sensitive Electronics in the Harshest Environments



Isolated Mount



Precision Fabricated Structures



Ruggedized Tray

Product Capabilities

► Avionics Racking Systems

Valued Solutions to Manage Acoustics, Motion, and Vibration.

Hutchinson Aerospace can employ multiple products and technologies to manage loads, vibration, and acoustics in a rotary wing platform.

Hutchinson Avionics Racking Systems offers a complete line of high strength, low weight electronics packaging solutions for fixed winged aircraft, helicopters, and ground vehicle applications. Our extensive portfolio of commercial and military racks, trays, hardware, and structures provides off the shelf ARINC solutions for LRU packaging and protection. Pair our mounting tray with Hutchinson's patented shock mounts to achieve isolation in the most severe vibration environments.

Hutchinson Avionics Racking Systems also supports, custom engineered mounting solutions that do not conform to traditional installation configurations and require additional engineering support. We specialize in non-standard LRU geometries and interface conditions, extreme

shock and vibration requirements, and unique airflow and electrical bonding design considerations. We are able to perform structural analysis, dynamic modeling, fatigue analysis, and reduce program risk through development. We have the ability to design, develop, prototype, qualify, and manufacture these mounting solutions all under one roof.

Product Specifications:

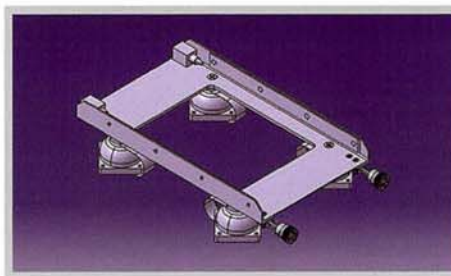
- ARINC 404
- ARINC 600
- MS14108
- M85731
- MS91405

Environmental Standards:

- Mil-STD-810
- RTCA-DO/160
- Mil-STD-167



Avionics Retaining Hardware



Custom Engineered Solutions



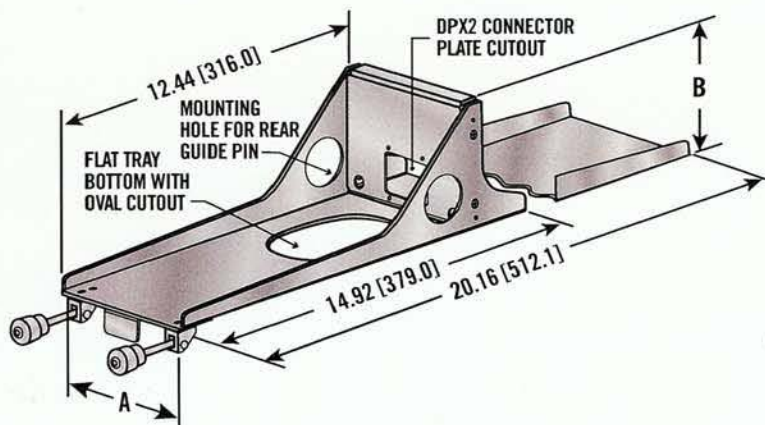
1MCU Tray

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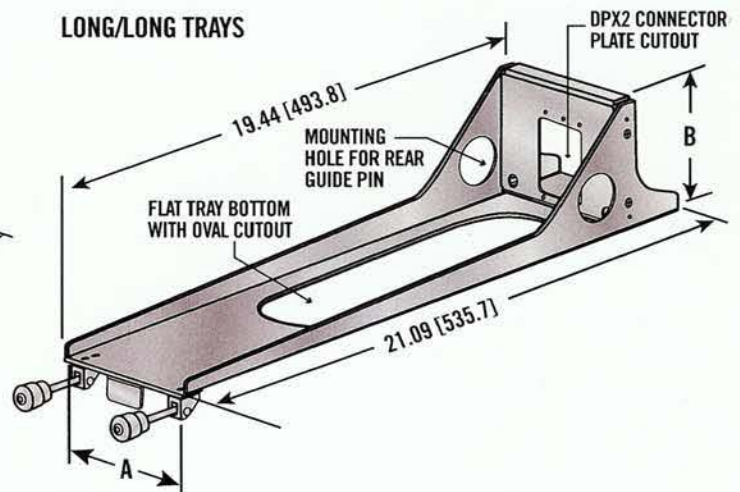
P; 818 686-1445
F: 818 696-1448
E: sales@aeektechnology.com
www.aeektechnology.com



SHORT/ SHORT & SHORT/LONG TRAYS



LONG/LONG TRAYS



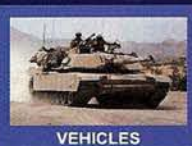
SIDE VIEW



TOP VIEW



ATR SIZE	A (INSIDE DIMENSION)	B SHORT	B MEDIUM	B TALL
1/4	2.39 [60.7]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]
3/8	3.69 [93.7]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]
1/2	5.01 [127.2]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]
3/4	7.63 [193.8]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]
1	10.26 [260.6]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]
1 1/2	15.51 [393.9]	3.38 [85.9]	4.38 [111.3]	6.38 [162.1]



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Mil-F-85731
Mil-STD 810
RTCA-DO/160
Mil-STD 167

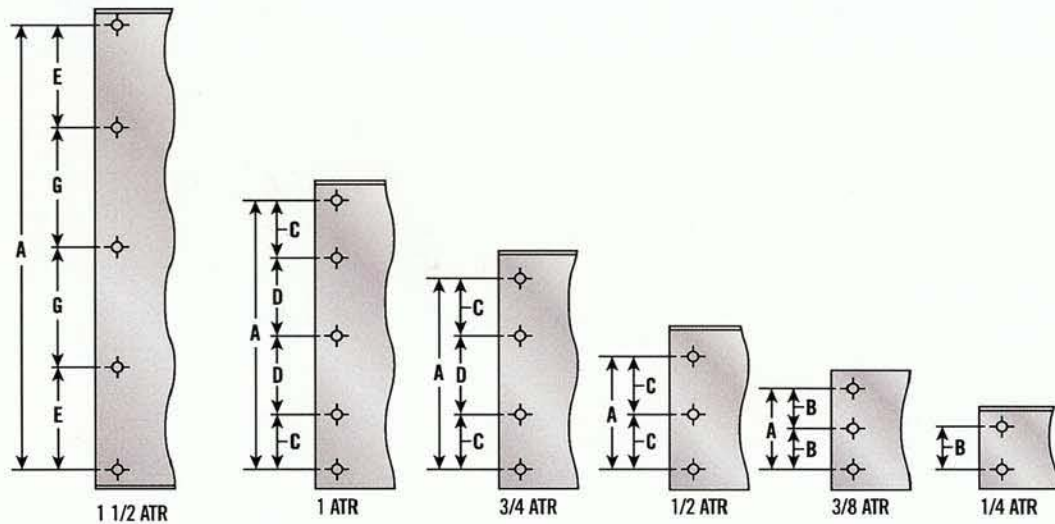


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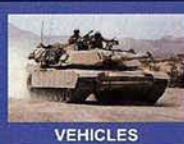
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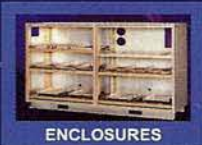
ATR Size	A	B	C	D	E	G
1/4	—	1.31 [33.3]	—	—	—	—
3/8	2.62 [66.6]	1.31 [33.3]	—	—	—	—
1/2	3.94 [99.9]	—	1.97 [49.9]	—	—	—
3/4	6.56 [166.6]	—	1.97 [49.9]	2.62 [66.6]	—	—
1	9.18 [233.2]	—	1.97 [49.9]	2.62 [66.6]	—	—
1 1/2	11.43 [366.5]	—	—	—	3.28 [83.3]	3.93 [99.9]



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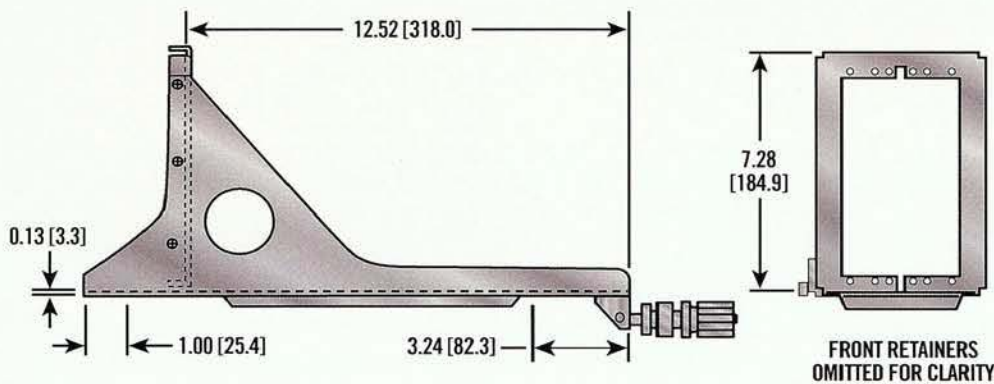
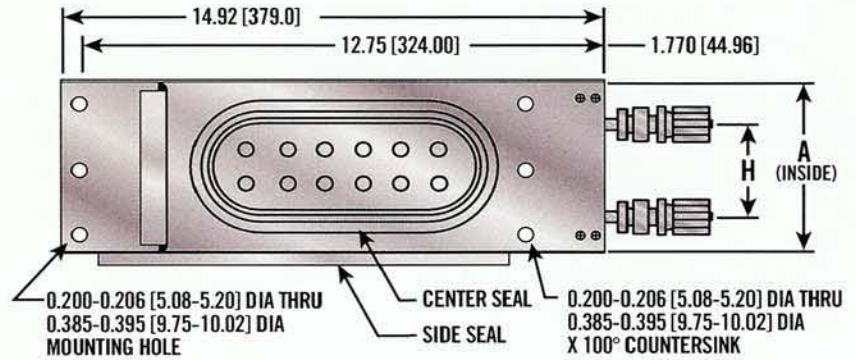
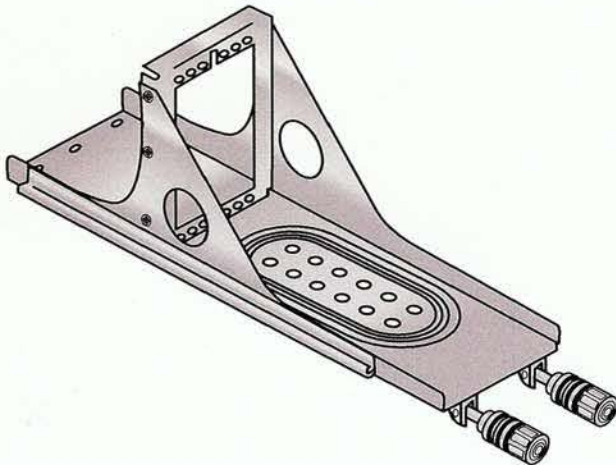


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MCU SIZE	A	H
1MCU	1.22 [31.0]	—
2MCU	2.51 [63.8]	—
3MCU	3.81 [96.8]	2.60 [66.0]
4MCU	5.13 [130.3]	2.60 [66.0]
5MCU	6.43 [163.3]	3.90 [99.1]
6MCU	7.73 [509.3]	5.20 [132.1]
8MCU	10.33 [262.4]	7.80 [198.1]
10MCU	12.93 [328.4]	10.40 [264.2]



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COMMERCIAL



MILITARY



ENGINEERED



ENCLOSURES



HARDWARE

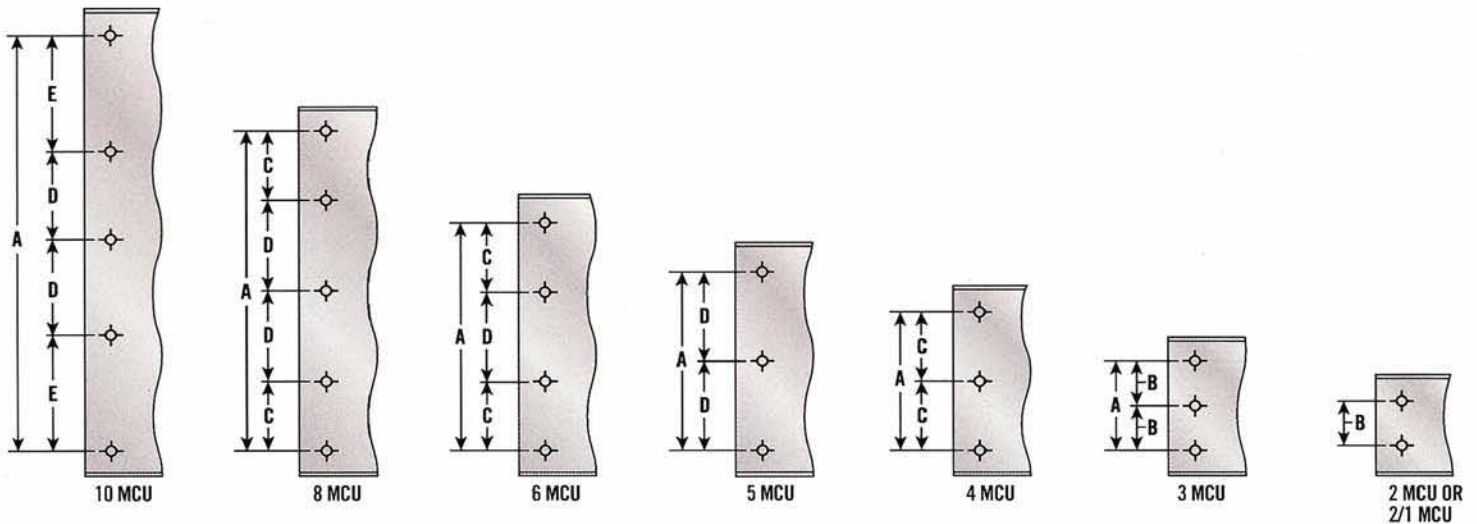


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MCU Size	A	B	C	D	E
2/1	—	1.31 [33.3]	—	—	—
2	—	1.31 [33.3]	—	—	—
3	2.62 [66.6]	1.31 [33.3]	—	—	—
4	3.91 [100.0]	—	1.97 [50.0]	—	—
5	5.25 [133.3]	—	—	2.62 [66.7]	—
6	6.56 [166.6]	—	1.97 [50.0]	2.62 [66.7]	—
8	9.18 [233.3]	—	1.97 [50.0]	2.62 [66.7]	—
10	11.81 [299.9]	—	—	2.62 [66.7]	3.28 [83.3]



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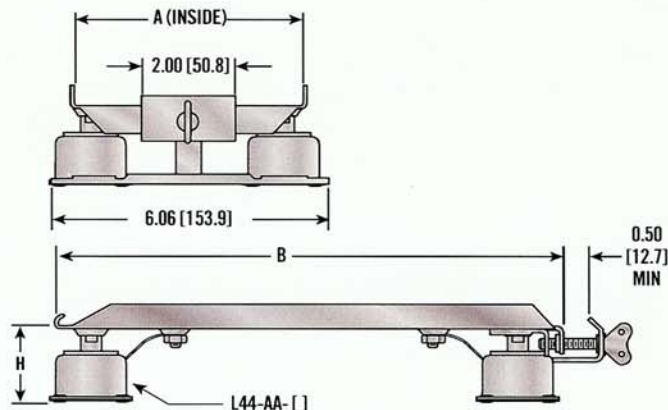
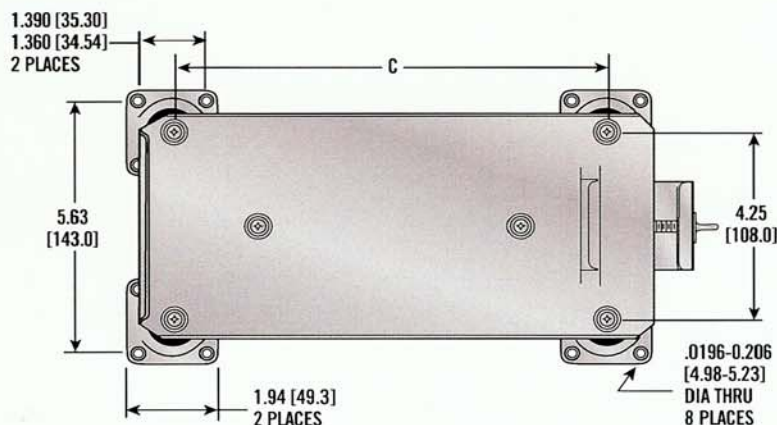
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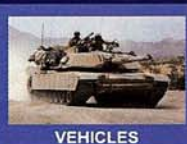
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MS91404 (TOLA) Trays



MILITARY STANDARD #	CATALOG SUFFIX #	EQUIP WT LBS [KG]	± .030 A	± .030 B	± .030 C	APPROX WT LBS [GR]
MS91404-S1	S1-A1/2	1-2 [0.5-0.9]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.00 [454.5]
	S1-A1	2-4 [0.9-1.8]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.01 [459.1]
	S1-A2	4-8 [1.8-3.6]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.01 [459.1]
	S1-A3	6-12 [2.7-5.5]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.02 [463.6]
	S1-A4	8-16 [3.6-7.3]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.03 [468.2]
	S1-A5	10-22 [4.5-10.0]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.03 [468.2]
	S1-A10	20-40 [9.1-18.2]	5.31 [134.9]	10.12 [257.2]	8.25 [209.6]	1.03 [468.2]
MS91404-S2	S2-A1/2	1-2 [0.5-0.9]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.11 [504.5]
	S2-A1	2-4 [0.9-1.8]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.11 [504.5]
	S2-A2	4-8 [1.8-3.6]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.11 [504.5]
	S2-A3	6-12 [2.7-5.5]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.2 [509.1]
	S2-A4	8-16 [3.6-7.2]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.2 [509.1]
	SA2-A5	10-22 [4.5-10.0]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.13 [513.6]
	S2-A10	20-40 [9.1-18.2]	4.94 [125.4]	13.31 [338.1]	11.62 [295.3]	1.13 [513.6]



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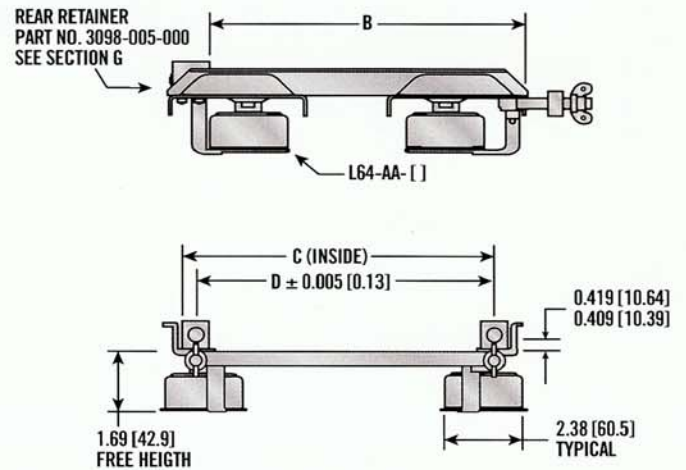
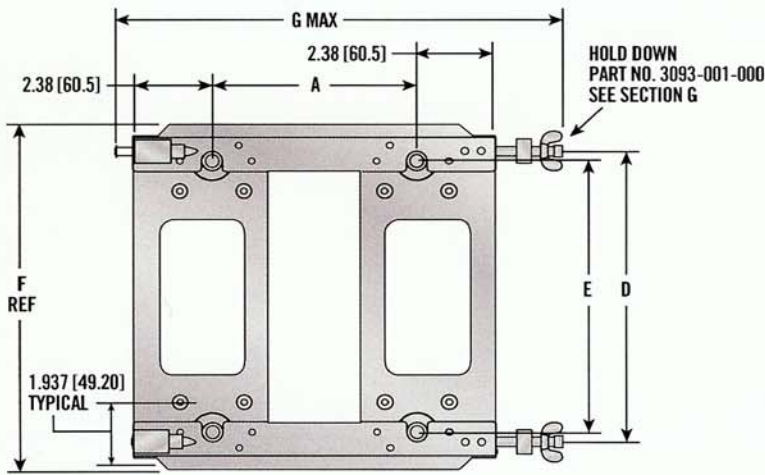
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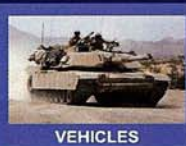
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MS91405 (AOLA) Trays



CODE	DIMENSIONS							ATR SIZE	LOAD RANGE LB	WT (LB)
	A	B	C	D	E	F	G			
A1B	9.062	12.625	5.000	4.125	3.500	5.875	16.312	1/2 SHORT	8 to 18	1.94
A1C	12.062	15.625	5.000	4.125	3.500	5.875	19.312	1/2 MEDIUM	12 to 20	2.13
A1D	16.062	19.625	5.000	4.125	3.500	5.875	23.312	1/2 LONG	18 to 40	2.26
B1B	9.062	12.625	10.250	9.375	8.750	11.125	16.312	1/2 SHORT	18 to 40	2.19
B1C	12.062	15.625	10.250	9.375	8.750	11.125	19.312	1 MEDIUM	18 to 40	2.19
AS DRAWN B1D	16.062	19.625	10.250	9.375	8.750	11.125	23.312	1 LONG	25 to 50	2.44
C1C	12.062	15.625	15.500	14.625	14.000	16.375	19.312	—	40 to 80	2.31
C1D	16.062	19.625	15.500	14.625	14.000	16.375	23.312	1 1/2 LONG	40 to 80	2.57



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