SPRING MOUNTS “H” TYPE

“H” Type spring mounts are rugged, low frequency vibration mounts specially designed to protect sensitive electronics in helicopter or propeller driven aircraft. They are fail-safe and use a friction-damped spring as a resilient element which gives them very consistent performance over a broad range of temperatures. “H” Type spring mounts are intended for base mounting orientation only and will work at inclination angles up to 10º. They are fail-safe and capable of surviving a 30G 11ms half sine shock.

Features:

- Fail-safe
- Compact, lightweight design
- 4:1 Axial to Radial spring rate
- Highly damped
- Very low radial spring rate

Spring mounts are available in two sizes:

- 3724 size: 7 load ratings from 2 to 40 lb
- 726 size: 7 load ratings from 0.50 to 10 lb

Applicable Specifications:

- MIL-STD-810
- MIL-STD-167
- MIL-E-5400
- MIL-C-172

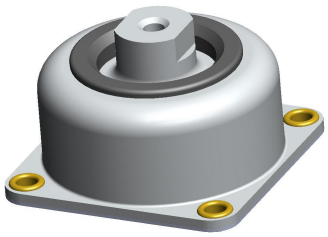
VIB3724

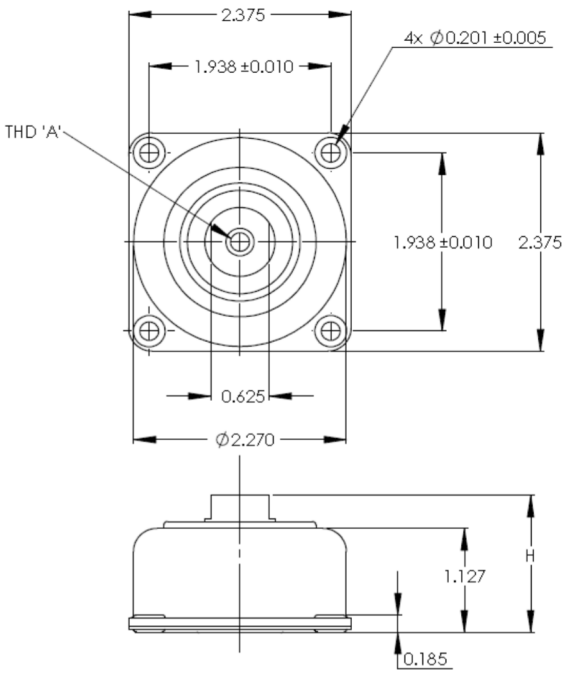
VIB726

SPRING MOUNTS "H" TYPE VIB3724 SERIES

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +250 F
Maximum Transmissibility at Resonance: 2
Load Capacity: 2.0 – 40 lbs
Part Weight: 3.6 oz.
Maximum Dynamic Input: 0.08 inch DA
Maximum Radial Travel: 0.286 inch
Materials & Finish:
Cup: 5052 AL per QQ-A-250
Bright anodize per MIL-A-8625
Base plate: 5052 AL per QQ-A-250
Clear anodize per MIL-A-8625
Core: 6061 AL per QQ-A-225
Clear Anodize per MIL-A-8625
Grommet: EPDM





Performance Characteristics

Part No.	Load Rating (lbs)		Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Min	Max	Hz	lb/in	N/mm	lb/in	N/mm
VIB3724-1	2.0	4.0	8	26	5	7	1
VIB3724-2	3.0	6.0		39	7	10	2
VIB3724-3	5.0	10		65	11	16	3
VIB3724-4	9.0	15		98	17	25	4
VIB3724-5	14	20		130	23	32	6
VIB3724-6	18	30		196	34	49	9
VIB3724-7	25	40		260	46	65	11

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
F_n: Natural Frequency at actual load (Hz)
F_{nn}: Nominal Natural Frequency (Hz)
P_r: Rated load
P_a: Actual load

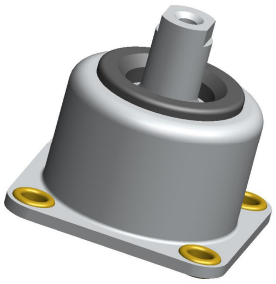
Variation	Approx. Under Min Load	Maximum Extended	Minimum Compressed
STANDARD	1.41	1.54	0.98
- L	1.57	1.70	1.14

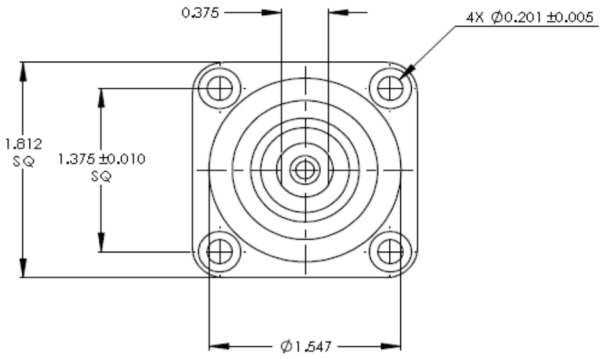
Variation	Thread 'A'
STANDARD	.250-20 UNC-2B x .375 Min Deep
- L	.250-20 UNC-2B x .562 Min Deep

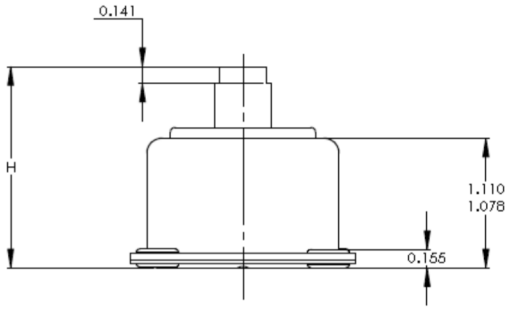
SPRING MOUNTS "H" TYPE VIB726 SERIES

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +250 F
Maximum Transmissibility at Resonance: 2.0
Load Capacity: 0.5 – 10 lb
Part Weight: 2 oz.
Maximum Dynamic Input: 0.06 inch DA
Maximum Radial Travel: 0.218 inch
Materials & Finish:
Cup: 5052 AL per QQ-A-250
Bright anodize per MIL-A-8625
Base plate: 5052 AL per QQ-A-250
Clear anodize per MIL-A-8625
Core: 6061 AL per QQ-A-225
Clear Anodize per MIL-A-8625
Grommet: EPDM







Performance Characteristics

Part No.	Load Rating (lbs)		Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Min	Max	Hz	lb/in	N/mm	lb/in	N/mm
VIB726-1	0.25	0.50	7	2.5	0.5	0.6	0.1
VIB726-2	0.50	1.0		5.0	1	1.2	0.2
VIB726-3	1.0	2.0		10	2	2.5	0.5
VIB726-4	1.5	3.0		15	3	4	0.7
VIB726-5	2.0	4.0		20	4	5	0.9
VIB726-6	4.0	6.0		30	5	8	1.4
VIB726-7	5.0	10		50	9	13	2

*Fn at max rated load and .036 inch DA input
To correct for loads lower than rated load use:
$F_n = F_{nn} * \sqrt{P_r/P_a}$
Where:
F_n: Natural Frequency at actual load (Hz)
F_{nn}: Nominal Natural Frequency (Hz)
P_r: Rated load
P_a: Actual load

Variation	Approx. Under Min Load	Maximum Extended	Minimum Compressed
STANDARD	1.375	1.632	0.975
- L	1.562	1.788	1.131

Variation	Thread 'A'
STANDARD	.164-32 UNC-2B x .500 Min Deep
- L	.164-32 UNC-2B x .500 Min Deep