

## 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 10°. They are fail-safe and capable of surviving a 30G 11ms half sine shock.

Features:

1. Fail-safe
2. Compact, lightweight Design
3. 4:1 Axial to Radial spring rate
4. Highly damped
5. Very low radial spring rate

Cup style mounts are available in two sizes:

- 724 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

# VIB724 CUP MOUNTS

## Product Specifications

Operating Temperature: -67 to +250 F  
 Maximum Transmissibility at Resonance: 2  
 Load Capacity: 2.0 – 40 lb  
 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 Hz	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Min	Max		lb/in	N/mm	lb/in	N/mm
VIB724-1	2.0	4.0	8	26	5	7	1
VIB724-2	3.0	6.0		39	7	10	2
VIB724-3	5.0	10		65	11	16	3
VIB724-4	9.0	15		98	17	25	4
VIB724-5	14	20		130	23	32	6
VIB724-6	18	30		196	34	49	9
VIB724-7	25	40		260	46	65	11

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

\*Fn at max rated load and .036 inch DA input  
 To correct for loads lower than rated load use:

$$F_n = F_{nm} \cdot \sqrt{P_r / P_a}$$

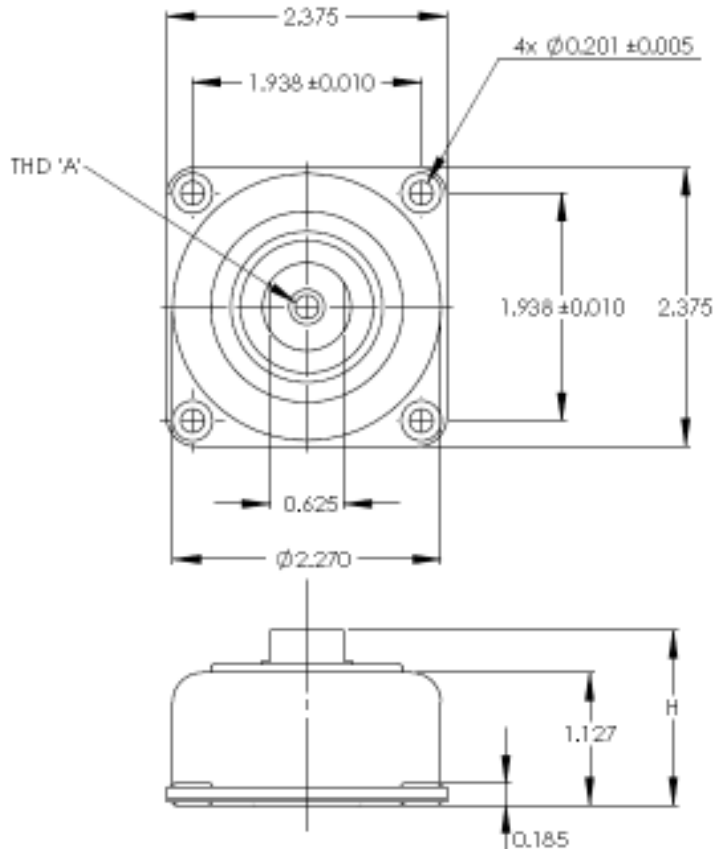
Where:

F<sub>n</sub>: Natural Frequency at actual load (Hz)

F<sub>nm</sub>: Nominal Natural Frequency (Hz)

P<sub>r</sub>: Rated load

P<sub>a</sub>: Actual load



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



# VIB726 CUP MOUNTS

## 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:

$$F_n = F_{mn} \cdot \sqrt{P_r / P_a}$$

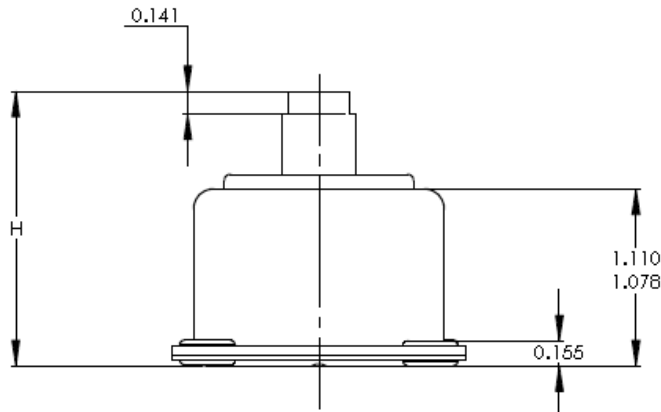
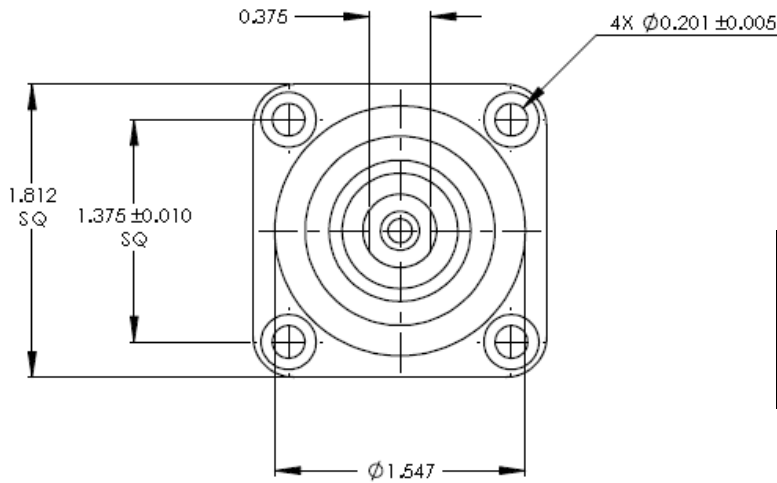
Where:

F<sub>n</sub>: Natural Frequency at actual load (Hz)

F<sub>mn</sub>: Nominal Natural Frequency (Hz)

P<sub>r</sub>: Rated load

P<sub>a</sub>: 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

