

## SPRING MOUNTS “L” TYPE

“L” type spring mounts are compact fail-safe mounts specially designed for propeller driven aircraft. They are low frequency and very highly damped ideal for the isolation of sensitive equipment in rotary or propeller drive aircraft.

“L” 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:

- 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:

- 3719 size: 7 load ratings from 2 to 40 lb
- 3725 size: 7 load ratings from 0.50 to 10 lb

### Applicable Specifications:

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



**VIB3719**



**VIB3725**

# SPRING MOUNTS “L” TYPE VIB3719 SERIES

## PRODUCT SPECIFICATIONS

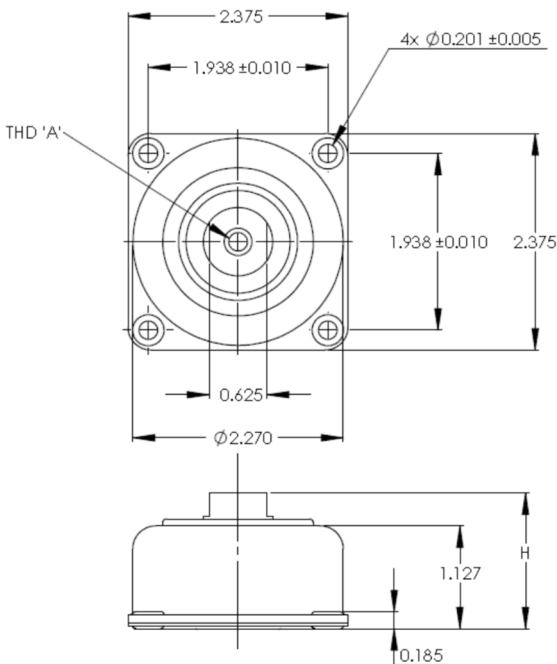
Operating Temperature: -67 to +250 F  
 Maximum Transmissibility at Resonance: 2.5  
 Load Capacity: 2.0 – 40 lbs  
 Part Weight: 3.6 oz.  
 Maximum Dynamic Input: 0.08 inch DA  
 Maximum Radial Travel: 0.286 inch  
 Materials & Finish:  
     Cup: 5052 AL per QQ-A-250  
         Bright anodize per MIL-A-8625  
     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
VIB3719-1	2.0	4.5	7	22.5	4	6	1
VIB3719-2	3.0	6.0		30	5	8	1.3
VIB3719-3	4.5	10		50	9	13	2
VIB3719-4	6.25	12.5		63	11	16	3
VIB3719-5	9.0	16		80	14	20	4
VIB3719-6	10	20		100	18	25	4
VIB3719-7	20	40		200	35	50	8

\*Fn at max rated load and .036 inch DA input  
 To correct for loads lower than rated load use:  
 $F_n = F_{nn} \cdot \sqrt{P_r / P_a}$   
 Where:  
 F<sub>n</sub>: Natural Frequency at actual load (Hz)  
 F<sub>nn</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	1.406	1.54	0.982
- L	1.562	1.706	1.148

Variation	Thread 'A'
STANDARD	.250-20 UNC-2B x .375 Min Deep
- L	.250-20 UNC-2B x .562 Min Deep
-F	.250-28 UNF-2B x .375 Min Deep
-LF	.250-28 UNC-2B x .562 Min Deep

# SPRING MOUNTS “L” TYPE VIB3725 SERIES

## PRODUCT SPECIFICATIONS

- Operating Temperature: -67 to +250 F
- Maximum Transmissibility at Resonance: 2.5
- Load Capacity: 0.5 – 10 lb
- Part Weight: 2 oz.
- Maximum Dynamic Input: 0.08 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
VIB3725-1	0.25	0.50	7	2.5	0.4	0.6	0.1
VIB3725-2	0.50	1.0		5	0.9	1.3	0.2
VIB3725-3	1.0	2.0		10	1.8	2.5	0.4
VIB3725-4	1.5	3.0		15	2.6	4	0.7
VIB3725-5	2.0	4.0		20	3.6	5	0.9
VIB3725-6	2.5	5.0		25	4.4	6	1
VIB3725-7	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:

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

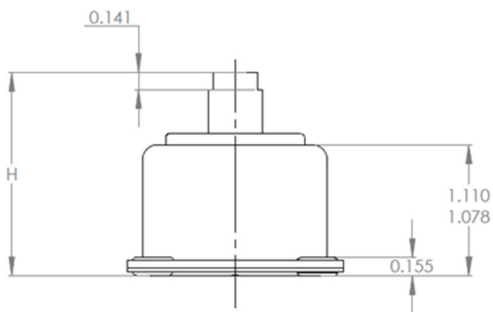
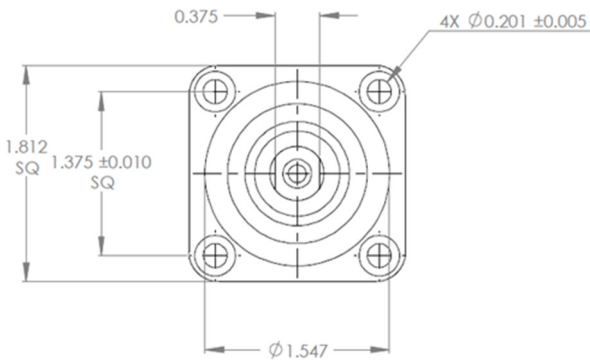
Where:

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

F<sub>nn</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