

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

Cup style mounts are available in two sizes:

- 719 size: 7 load ratings from 2 to 40 lb
- 725 size: 7 load ratings from 0.50 to 10 lb

Applicable Specifications:

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



VIB719



VIB725

VIB719 CUP MOUNTS

PRODUCT SPECIFICATIONS

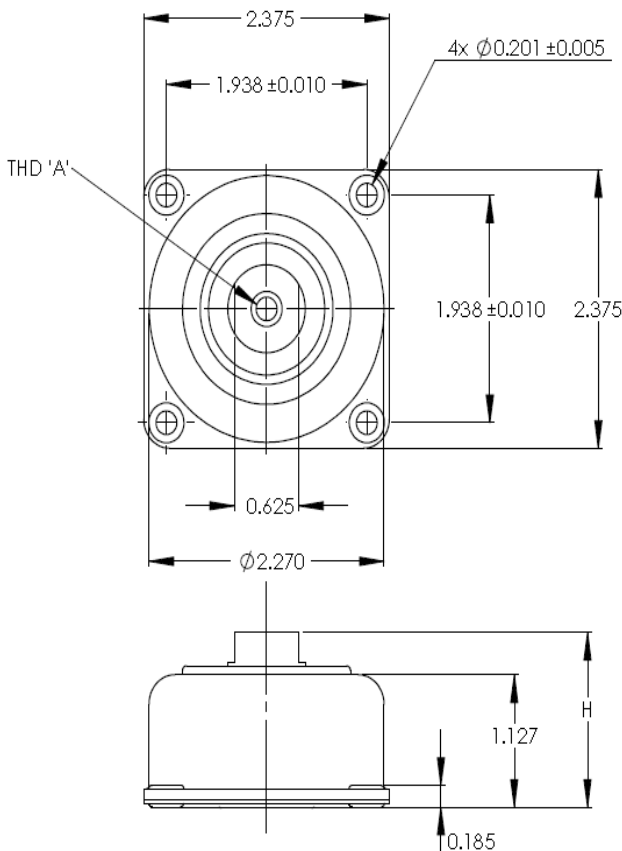
Operating Temperature: -67 to +250 F
 Maximum Transmissibility at Resonance: 2.5
 Load Capacity: 2.0 – 40 lb
 Part Weight: 3.6 oz.
 Maximum Dynamic Input: 0.08 inch DA
 Maximum Radial Travel: 0.286 inch
 Materials & Finish:

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	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Min	Max	Hz	lb/in	N/mm	lb/in	N/mm
VIB719-1	2.0	4.5	7	22.5	4	6	1
VIB719-2	3.0	6.0		30	5	8	1.3
VIB719-3	4.5	10		50	9	13	2
VIB719-4	6.25	12.5		63	11	16	3
VIB719-5	9.0	16		80	14	20	4
VIB719-6	10	20		100	18	25	4
VIB719-7	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:

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

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	1.406	1.54	0.982
-L	1.562	1.706	1.148

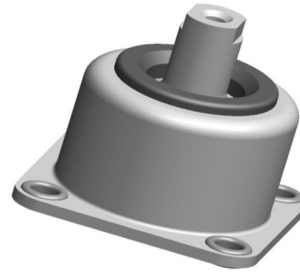
Variation	Thread 'A'
STANDARD	.250-20 UNC-2B x .375 Min Deep
-L	.250-20 UNC-2B x .562 Min Deep
-F	.250-28 UNF-2B x .375 Min Deep
-LF	.250-28 UNC-2B x .562 Min Deep

VIB725 CUP MOUNTS

PRODUCT SPECIFICATIONS

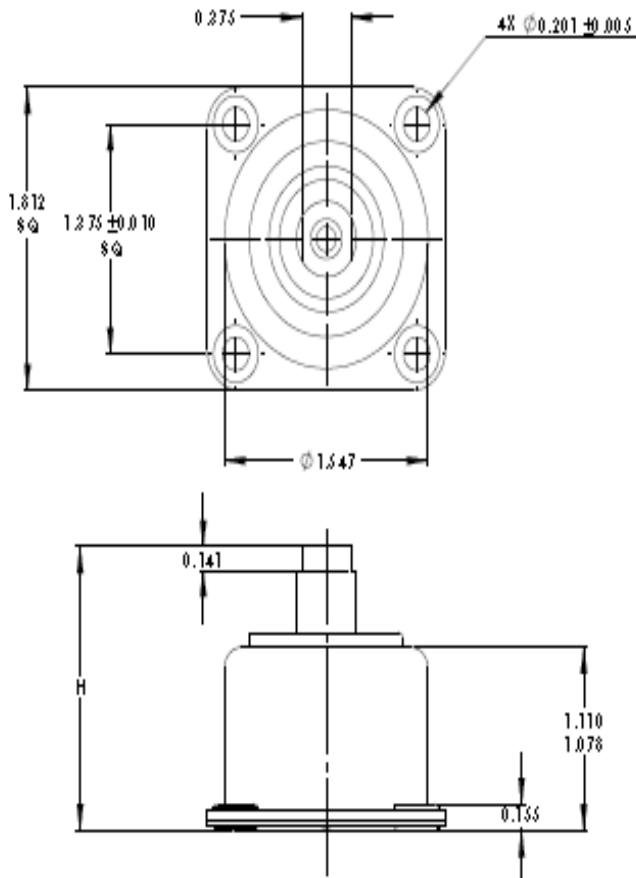
Operating Temperature: -67 to +250 F
 Maximum Transmissibility at Resonance: 2.5
 Load Capacity: 0.5 – 10 lb
 Part Weight: 2 oz.
 Maximum Dynamic Input: 0.08 inch DA
 Maximum Radial Travel: 0.218 inch
 Materials & Finish:

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
VIB725-1	0.25	0.50	7	2.5	0.4	0.6	0.1
VIB725-2	0.50	1.0		5	0.9	1.3	0.2
VIB725-3	1.0	2.0		10	1.8	2.5	0.4
VIB725-4	1.5	3.0		15	2.6	4	0.7
VIB725-5	2.0	4.0		20	3.6	5	0.9
VIB725-6	2.5	5.0		25	4.4	6	1
VIB725-7	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