

ALL-ATTITUDE MOUNTS

All-attitude mounts are general purpose isolators for applications on aircraft, ground vehicles or racking systems. Equipment can be mounted in any orientation (attitude) with equal performance. All attitude isolators offer high frequency shock and vibration protection.

Features:

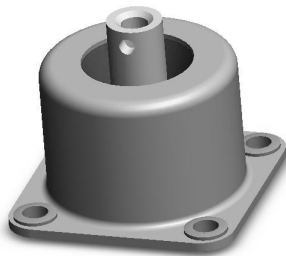
- Compact, lightweight Design
- 1:1 Axial to Radial spring rate
- All-attitude design
- Isolates under sustained loading up to 5G
- Efficiently isolates vibration in all directions
- Survives 30G 11ms 1/2 sine shock input at rated load

All-attitude mounts are available in three sizes:

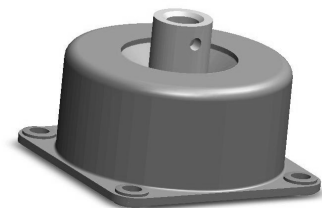
- 706 size: 5 load ratings from 1 to 7 lb
- 705 size: 3 load ratings from 10 to 20 lb
- 707 size: 3 load ratings from 35 to 80 lb

Applicable Military Specifications:

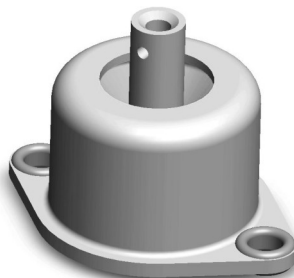
- MIL-E-5400
- MIL-STD-810



VIB3705



VIB3707

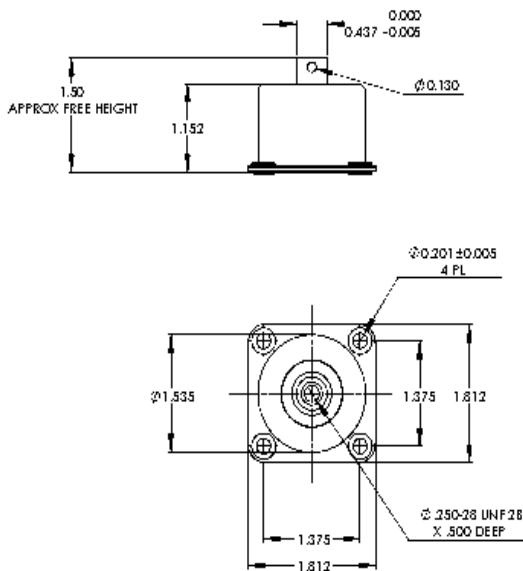
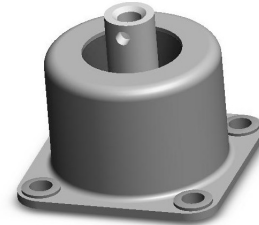


VIB3706

VIB705 ALL-ATTITUDE MOUNT

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +300 F
 Maximum Transmissibility at Resonance: 4.0
 Load Capacity: 10 – 20 lb
 Axial-Radial Stiffness Ratio: 1:1
 Part Weight: 2.8 oz.
 Materials: Cup and Base Plate: 302 or 304 Stainless Steel, Passivated per ASTM A967
 Core: Aluminum alloy 6061-T6, chem. Film per MIL-C-5541 Class 1A
 Eyelets: Brass, Nickel plated per ASTM B689

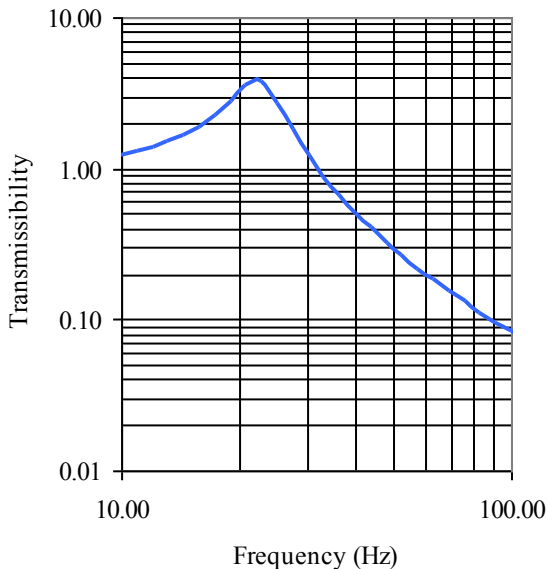


Performance Characteristics

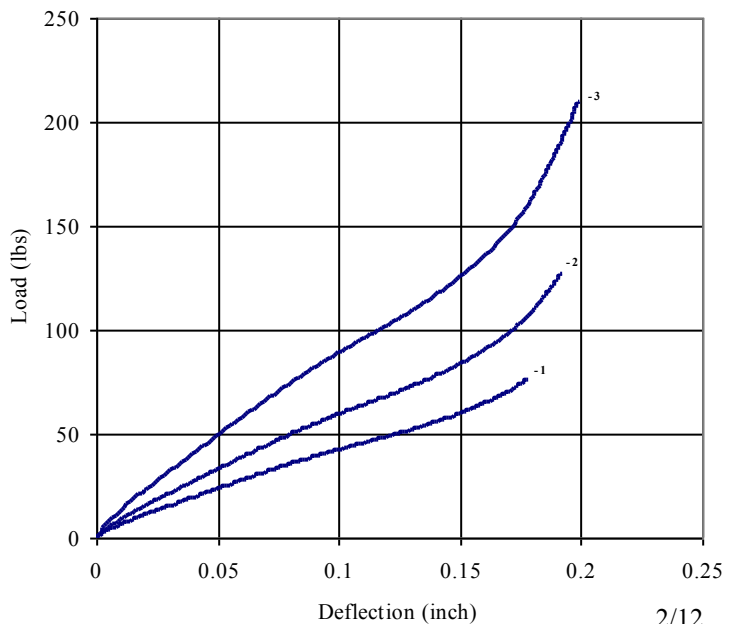
Part Number	Maximum Static Load lbs	Axial Natural Frequency Hz	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
			lb/in	N/mm	lb/in	N/mm
VIB3705-1	10	22	494	89	494	89
VIB3705-2	15		741	133	741	133
VIB3705-3	20		988	177	988	177

*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

Transmissibility vs. Frequency



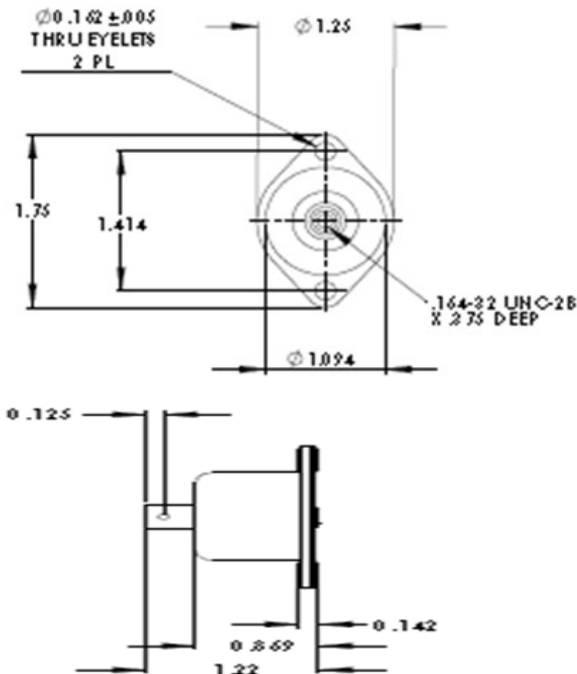
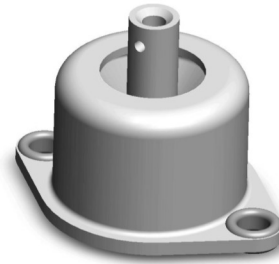
Typical Load vs. Deflection



VIB706 ALL-ATTITUDE MOUNTS

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +300 F
 Maximum Transmissibility at Resonance: 4.0
 Load Capacity: 1 – 5 lb
 Axial-Radial Stiffness Ratio: 1:1
 Part Weight: 1.1 oz.
 Materials: Cup and Base Plate: Aluminum alloy 5052-H32
 Core: Aluminum alloy 6061-T6, chem. Film per MIL-C-5541 Class 1A
 Eyelets: Brass, Nickel plated per ASTM B689

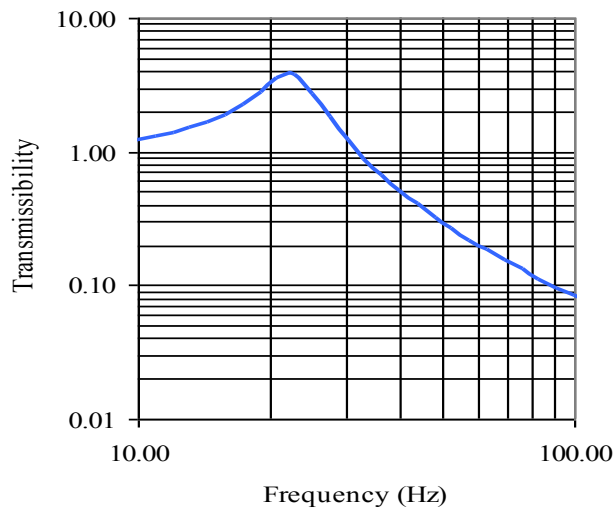


Performance Characteristics

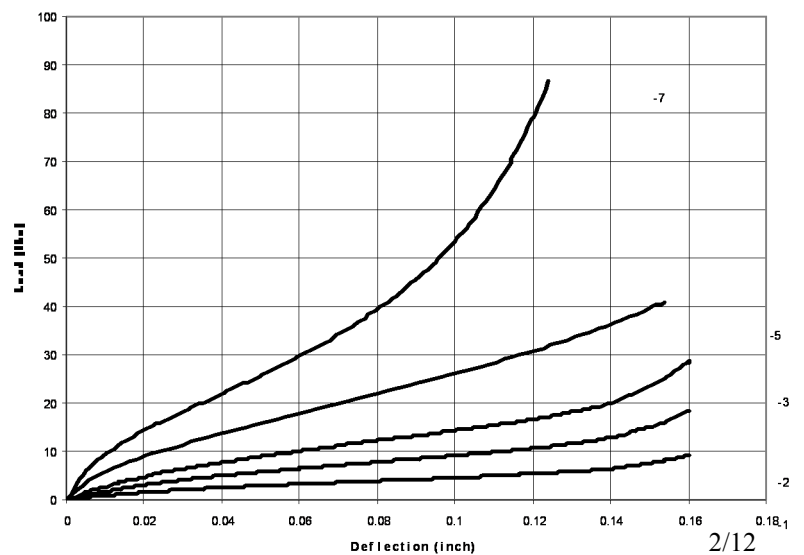
Part Number	Maximum Static Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
			lbs	Hz	lb/in	N/mm
VIB3706-1	1	23	54	9.5	54	9.5
VIB3706-2	2		108	19	108	19
VIB3706-3	3		162	28	162	28
VIB3706-5	5		270	47	270	47
VIB3706-7	7		378	67	378	67

*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_n: Natural Frequency at actual load (Hz)
 F_{mn}: Nominal Natural Frequency (Hz)
 P_r: Rated load
 P_a: Actual load

Transmissibility vs. Frequency



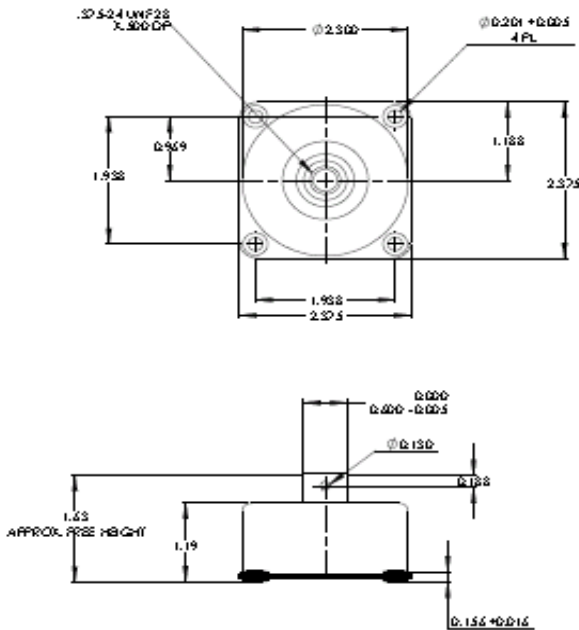
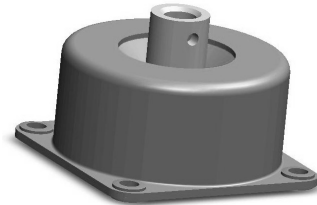
Typical Load vs. Deflection



VIB707 ALL-ATTITUDE MOUNTS

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +300 F
 Maximum Transmissibility at Resonance: 4.0
 Load Capacity: 10 – 20 lb
 Axial-Radial Stiffness Ratio: 1:1
 Part Weight: 2.8 oz.
 Materials: Cup and Base Plate: Cold Rolled Steel, Zinc Plated per ASTM B633
 Core: Aluminum alloy 6061-T6, chem. Film per MIL-C-5541 Class 1A
 Eyelets: Brass, Nickel plated per ASTM B689



Performance Characteristics

Part Number	Maximum Static Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
			lbs	Hz	lb/in	N/mm
VIB3707-1	35	17	1032	181	1032	181
VIB3707-2	50		1475	259	1475	259
VIB3707-3	80		2360	414	2360	414

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

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

Where:

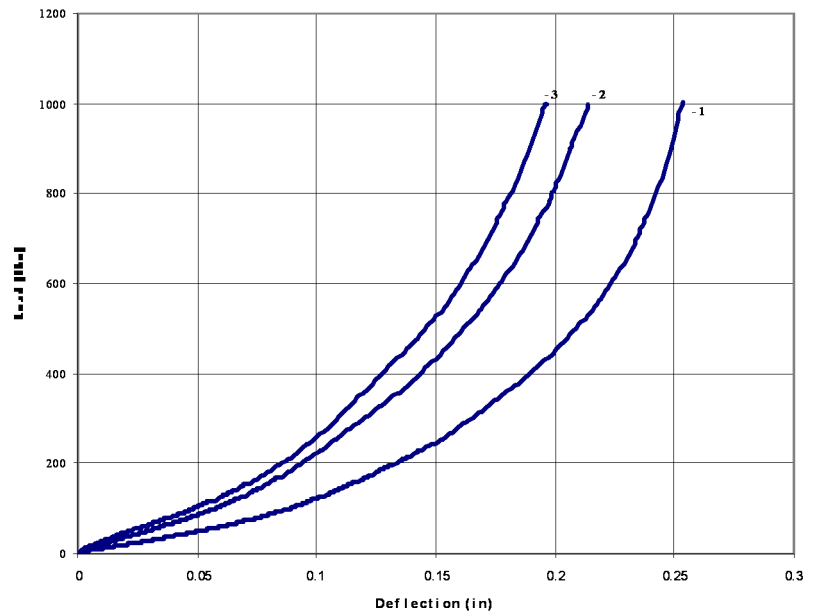
F_n : Natural Frequency at actual load (Hz)

F_m : Nominal Natural Frequency (Hz)

P_r : Rated load

P_a : Actual load

Typical Load vs. Deflection



Transmissibility vs. Frequency

