

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:

- 3706 size: 5 load ratings from 1 to 7 lb
- 3705 size: 3 load ratings from 10 to 20 lb
- 3707 size: 3 load ratings from 35 to 80 lb

Applicable Military Specifications:

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



VIB3705



VIB3707



VIB3706



ALL-ATTITUDE MOUNTS VIB3705 SERIES

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







Transmissibility vs. Frequency



Performance Characteristics

Part Number	Maximum Static Load	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamio Spring	nic Radial ng Rate	
	lbs	Hz	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)

Pr: Rated load

P_a: Actual load



Typical Load vs. Deflection

www.greenerubber.com



ALL-ATTITUDE MOUNTS VIB3706 SERIES

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	lb/in	N/mm
VIB3706-1	1		54	9.5	54	9.5
VIB3706-2	2		108	19	108	19
VIB3706-3	3	23	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:

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

Where:

F_n: Natural Frequency at actual load (Hz)

Fnn: Nominal Natural Frequency (Hz)

Pr: Rated load

Pa: Actual load

Transmissibility vs. Frequency



Typical Load vs. Deflection





ALL-ATTITUDE MOUNTS VIB3707 SERIES

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







Transmissibility vs. Frequency



Transmissibility

Performance Characteristics

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

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

F_n: Natural Frequency at actual load (Hz)

F_{nn}: Nominal Natural Frequency (Hz)

- Pr: Rated load
- P_a: Actual load



Typical Load vs. Deflection

Deflection (inch)