

LOW PROFILE MOUNTS

Low profile mounts offer a compact, standardized solution to a multitude of vibration control problems. They are lightweight and rugged to satisfy challenging problems and minimize sway space requirements. They are suitable for aerospace, defense, medical and electronics applications. Low profile mounts are available with a mounting plate, in a platform base or as individual grommets.

Features:

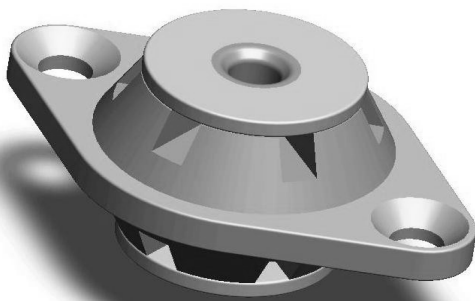
- Compact, lightweight Design
- 1:1 Axial to Radial spring rate
- All attitude design
- Fail-safe design
- Efficiently isolates vibration in all directions
- Survives 30G 11ms 1/2 sine shock input at rated load

Low profile mounts are available in two sizes with load ratings from 1 to 50 lbs.

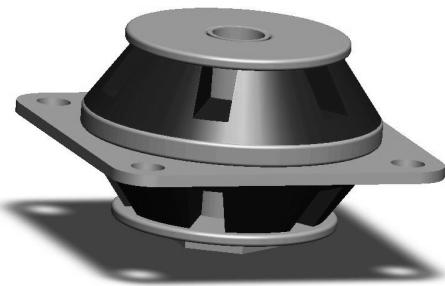
- 3203 Size: Load ratings from 4.5 to 10 lb
- 3204 Size: Load ratings from 15 to 50 lb

Applicable Military Specifications

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



VIB3203



VIB3206

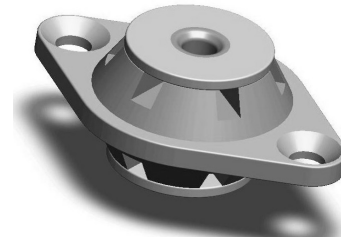
VIB203 VIBRATION MOUNTS

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +300 F
 Maximum Transmissibility at Resonance: 4.0
 Load Capacity: 4.5 – 10 lb
 Axial-Radial Stiffness Ratio: 1:1
 Part Weight: 0.01 lb (Grommet Only)
 0.03 lb (Plate Style Mount)
 0.05 lb (Platform Base)

Materials:

Plate: Aluminum alloy, chromated MIL-C-5541, class 1A
 Core & washers Steel, zinc plated ASTM B633



Part Numbers			
Load Rating	Grommet Only	Plate Style	w/ Pedestal Base
4.5	VIB3203-1	VIB3103-1	VIB3709-1
7.0	VIB3203-2	VIB3103-2	VIB3709-2
10.0	VIB3203-3	VIB3103-3	VIB3709-3

*for threaded versions add T to end (ex: VIB3103-1T)

*Special versions available on request

P/N	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Hz	lb/in	N/mm	lb/in	N/mm
-1	23	245	44	245	44
-2		380	68	380	68
-3		540	97	540	97

*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:

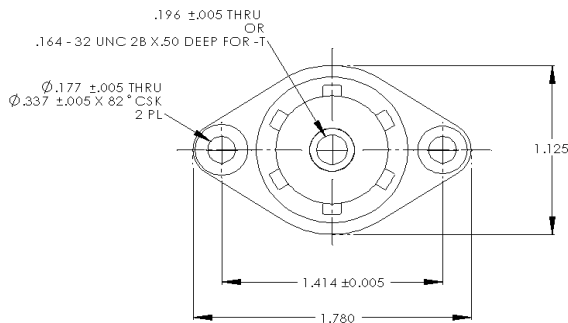
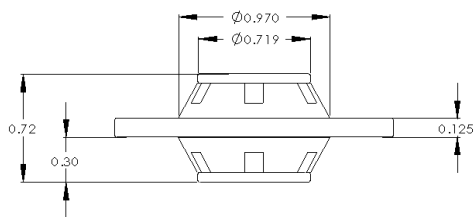
Fn: Natural Frequency at actual load (Hz)

Fnn: Nominal Natural Frequency (Hz)

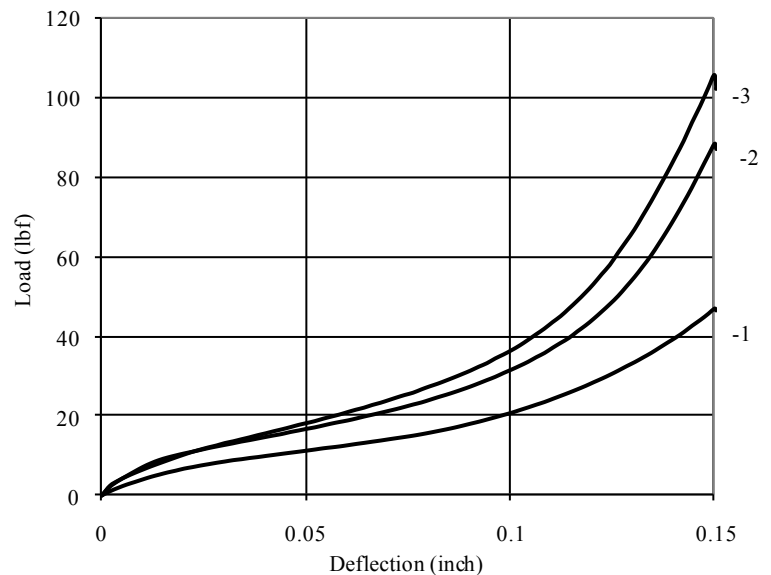
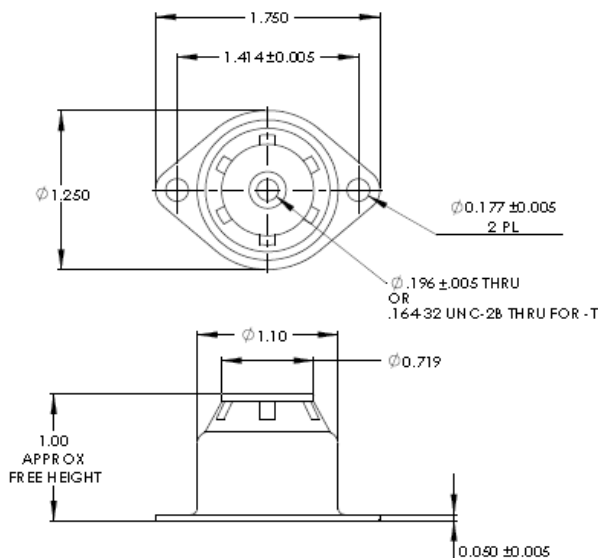
Pr: Rated load

Pa: Actual load

Plate Style



With Pedestal Base



VIB206 VIBRATION MOUNTS

PRODUCT SPECIFICATIONS

Operating Temperature: -67 to +300 F (Silicone Versions)
 -20 to +200 F (Neoprene Versions)

Maximum Transmissibility at Resonance: 4.0 (Silicone)
 10.0 (Neoprene)

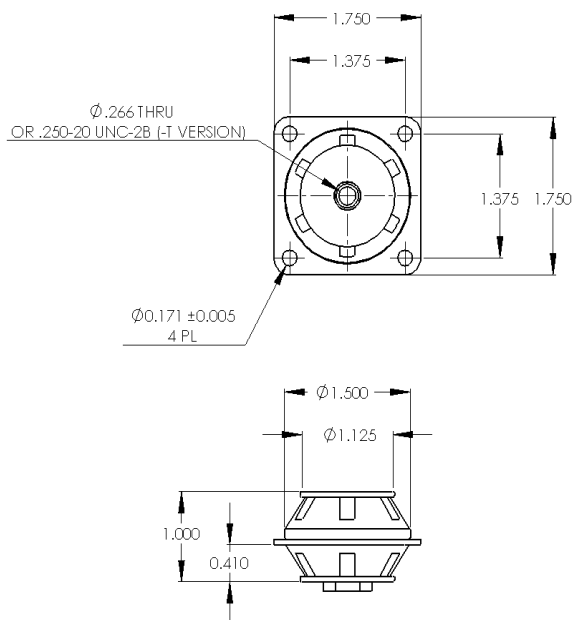
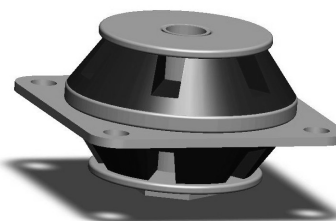
Load Capacity: 15 – 50 lb

Axial-Radial Stiffness Ratio: 1:0.8

Part Weight: 0.6 oz (Grommet Only)
 2.5 oz (Plate Style Mount)

Materials:

- Plate, Core & washers Steel, zinc plated ASTM B633
- Elastomer: Silicone or Neoprene



Part Numbers					
Load Rating Stationary	Load Rating Mobile	Silicone Plate Style Mount	Neoprene Plate Style Mount	Silicone Grommet Only	Neoprene Grommet Only
15	4—7	VIB3104-1	VIB2104-1	VIB3206-1	VIB2206-1
25	8—11	VIB3104-2	VIB2104-2	VIB3206-2	VIB2206-2
35	12—17	VIB3104-3	VIB2104-3	VIB3206-3	VIB2206-3
50	18—30	VIB3104-4	VIB2104-4	VIB3206-4	VIB2206-4

How to order:

VIB3104-2TX

- For .250-20 UNC-2B Tapped versions add T to the end of part number
- Use X for Hex end of tapped core on opposite side of 1.5 DIA ring
- Use Y for Hex end of tapped core on same side as 1.5 DIA ring

P/N	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
	Hz	lb/in	N/mm	lb/in	N/mm
-1	15	344	60	215	38
-2	17	738	130	442	78
-3		1035	181	621	109
-4		1475	259	885	155

*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:

Fn: Natural Frequency at actual load (Hz)

Fnn: Nominal Natural Frequency (Hz)

Pr: Rated load

Pa: Actual load

