

## LOW PROFILE/HIGH DEFLECTION MOUNTS

Low-profile, high-deflection mounts are general purpose isolators for applications in ground vehicles or transit cases where high amplitude vibration and shock loading is expected. Low-profile, high-deflection mounts are resistant to a wide range of environmental conditions and are ideally suited for the isolation of electronic equipment in off-road and heavy duty service.

### Features:

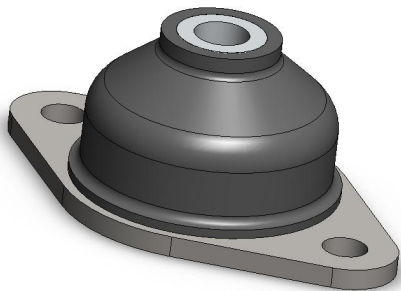
- Lightweight, low-profile design
- Efficiently isolates vibration in all directions
- 2:1 Axial to Radial spring rate
- Survives 30G 11ms ½ sine shock input at rated load

Low-profile, high-deflection mounts are available in two sizes:

- 2805 size: 5 load ratings from 2.5 to 10 lb
- 2806 size: 3 load ratings from 2 to 10 lb

### Applicable Military Specifications:

- MIL-STD-810



**VIB2805**

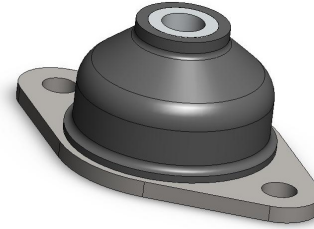


**VIB2806**

# LOW PROFILE/HIGH DEFLECTION VIB2805 SERIES

## PRODUCT SPECIFICATIONS

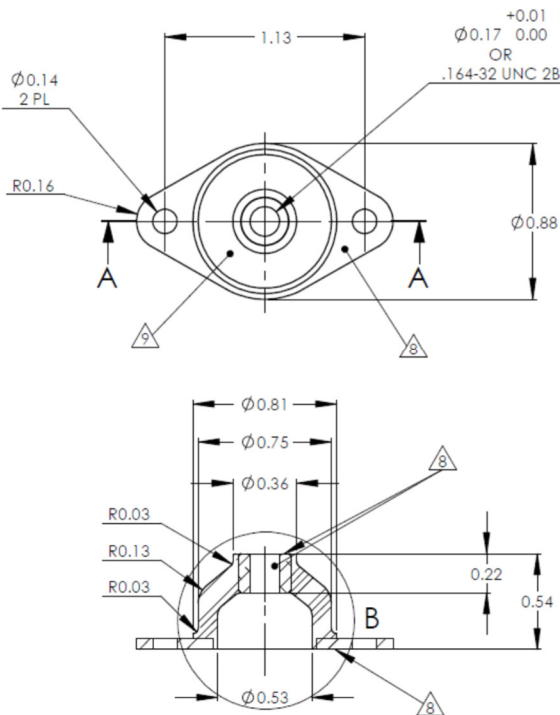
Operating Temperature: -20 to +180 F  
 Maximum Transmissibility at Resonance: 10.0  
 Load Capacity: 2.5 – 10 lb  
 Axial-Radial Stiffness Ratio: 2:1  
 Part Weight: 0.2 oz.  
 Materials:  
 Core and Base Plate: Aluminum alloy 6061-T6  
 Elastomer: Neoprene



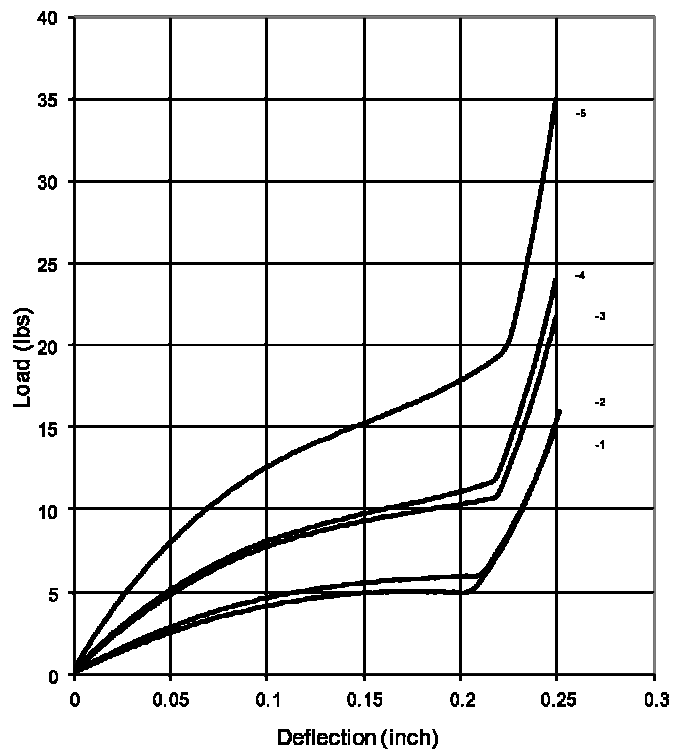
## Performance Characteristics

Part No.	Color Code	Max. Static Load (Axial)	Max. Static Load (Radial)	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
		Lbs	Lbs		Hz	lb/in	N/mm	lb/in
VIB2805-1	Blue	2.50	1.40	14	50	9	25	5
VIB2805-2	Red	3.75	1.90		75	14	38	7
VIB2805-3	Green	4.25	2.75	16	111	20	55	10
VIB2805-4	Yellow	6.50	3.75		170	31	85	15
VIB2805-5	White	10.0	6.25		261	47	130	23

\* $F_n$  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:  
 $F_n$ : Natural Frequency at actual load (Hz)  
 $F_{nn}$ : Nominal Natural Frequency (Hz)  
 $P_r$ : Rated load  
 $P_a$ : Actual load



## Typical Load vs. Deflection



# LOW PROFILE/HIGH DEFLECTION VIB2806 SERIES

## PRODUCT SPECIFICATIONS

Operating Temperature: -20 to +180 F  
 Maximum Transmissibility at Resonance: 10.0  
 Load Capacity: 2 – 10 lb  
 Axial-Radial Stiffness Ratio: 2:1  
 Part Weight: 0.5 oz.  
 Materials:  
 Core and Base Plate: Aluminum alloy 6061-T6  
 Elastomer: Neoprene



## Performance Characteristics

Part No.	Color Code	Max. Static Load (Axial)	Max. Static Load (Radial)	Axial Natural Frequency	Dynamic Axial Spring Rate		Dynamic Radial Spring Rate	
		Lbs	Lbs		Hz	lb/in	N/mm	lb/in
VIB2806-1	Blue	2.0	0.75	12	29	5	15	3
VIB2806-2	Red	3.0	1.50		44	8	22	4
VIB2806-3	Green	5.0	2.25		73	13	37	7
VIB2806-4	Yellow	7.5	4.0		110	20	55	10
VIB2806-5	White	10.0	5.5		147	27	74	14

\*Fn at max rated load and .036 inch DA input  
 To correct for loads lower than rated load use:  
 $F_n = F_{nm} \sqrt{P_r / P_a}$   
 Where:  
 $F_n$ : Natural Frequency at actual load (Hz)  
 $F_{nm}$ : Nominal Natural Frequency (Hz)  
 $P_r$ : Rated load  
 $P_a$ : Actual load

## Typical Load vs. Deflection

