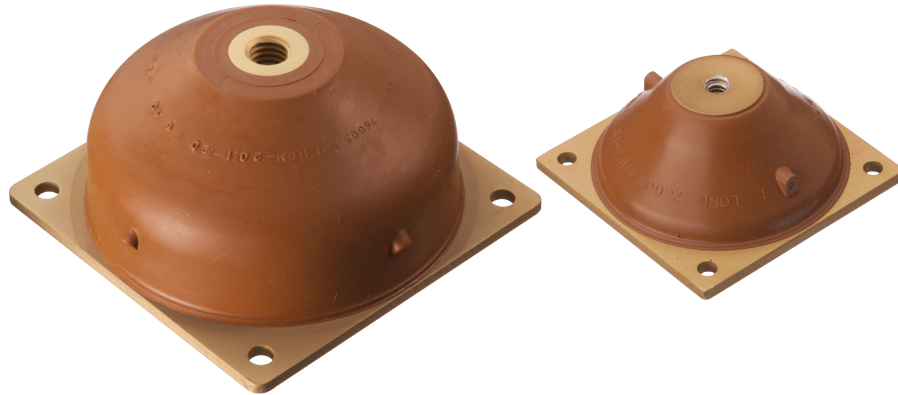


HIGH DEFLECTION MOUNTS

HDM SERIES, MHDM SERIES

Request Quote



ALL-ATTITUDE SHOCK PROTECTION COMBINED WITH SUPERIOR VIBRATION CONTROL

The HDM Mount and MHDM Mount are ideal for a variety of shock protection applications. HDM Mounts are capable of deflecting 0.75 inches in both the axial and radial directions under a shock load. Both designs also provide isolation when high amplitude vibration excitation is expected. While supporting the rated load, the HDM Mount will attenuate a 15g, 11ms, half-sine pulse to 10g and 30g, 11ms, half-sine pulse to 16g.

The HDM Mount is available in LORD BTR[®] silicone and SPE[®] I elastomers to suit a variety of applications. The BTR silicone has excellent damping characteristics as well as Broad Temperature Range performance characteristics from -65°F to +300°F (-54°C to +149°C). LORD SPE I has good damping characteristics and is suitable for environments ranging from -65°F to +165°F (-54°C to +74°C).

HDM SERIES



- **Static load per mount:**
12 to 50 lb (5.5 to 23 kg)
- **Maximum dynamic input at resonance:**
0.125 in D.A.
- **Natural frequency:**
20 to 25 Hz at 0.036 in (0.91 mm) D.A.
and rated load
- **Weight:**
8.8 oz (250 g)

- **Materials:**

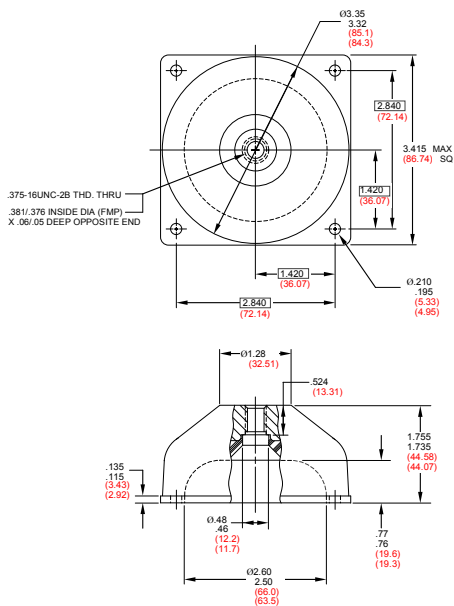
Metal parts and finish – aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A

Inner member – 6061-T651 aluminum

Outer member – 6061-T6 aluminum

Elastomer – LORD BTR® Silicone or SPE® I
Natural Rubber Blend

FIGURE 1 – PART DIMENSIONS



Metric values in parenthesis.

FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

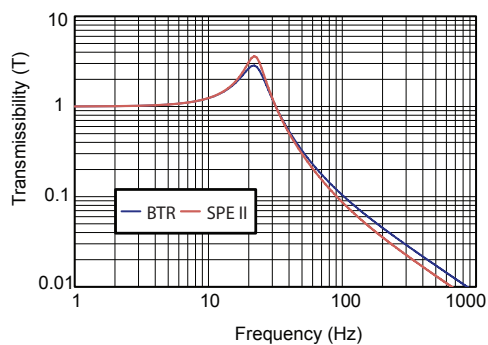
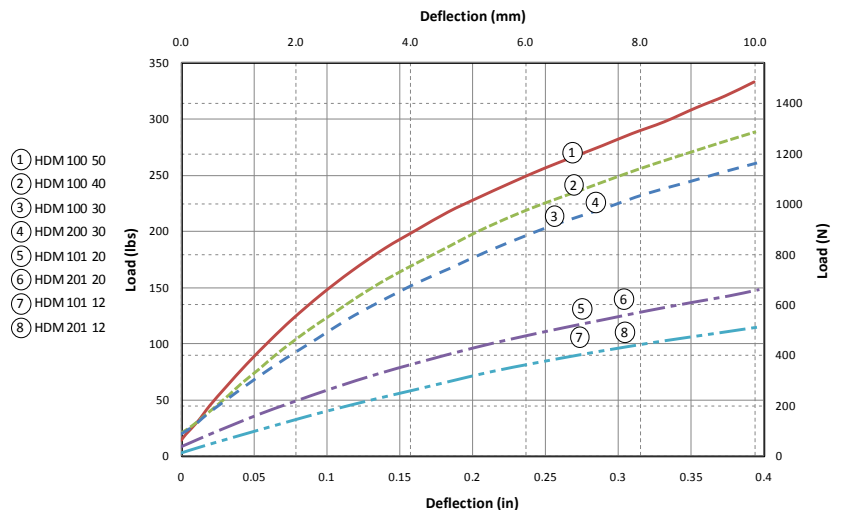


TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Load Rating		Dynamic Axial Spring Rate*		Dynamic Radial Spring Rate*		Maximum Transmissibility
	lb	kg	lb/in	N/mm	lb/in	N/mm	
BTR							
HDM 201 12	12	5.5	620	109	517	91	3.5
HDM 201 20	20	9.1	1033	181	861	151	3.5
HDM 200 30	30	14	1550	272	1107	194	3.5
SPE I							
HDM 101 12	12	5.5	620	109	517	91	7
HDM 101 20	20	9.1	1033	181	861	151	6
HDM 100 30	30	14	1550	272	1107	194	5
HDM 100 40	40	18	2067	362	1292	226	5
HDM 100 50	50	23	2584	453	1615	283	5

* Dynamic input = 0.036 in (0.91 mm) D.A.

FIGURE 3 – LOAD VS. DEFLECTION



HIGH DEFLECTION MOUNTS

MHDM SERIES



- **Load capacity:**
2 to 6 lb (0.91 to 2.7 kg)
- **Maximum dynamic input at resonance:**
0.12 in D.A.
- **Weight:**
2.05 oz (58g)

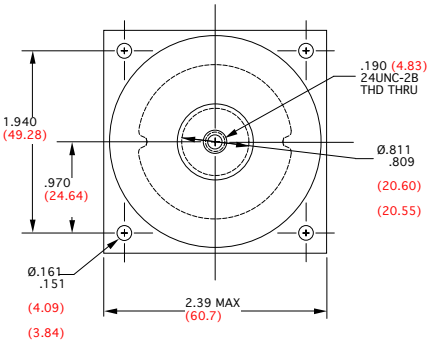
Materials:

Inner member – 2024-T351 aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A
Outer member – 204-T3 or 2024-T351 aluminum, chromate treated per MIL-DTL-5541, Class 1A
Elastomer – LORD BTR® Silicone

TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Load Rating		Dynamic Axial Spring Rate		Natural Frequency (Hz)
	lb	kg	lb/in	N/mm	
MHDM-201-2	2	0.91	100	17.5	22
MHDM-201-4	4	1.8	200	35	22
MHDM-201-6	6	2.7	300	52.5	22

FIGURE 1 – PART DIMENSIONS



Metric values in parenthesis.

FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

