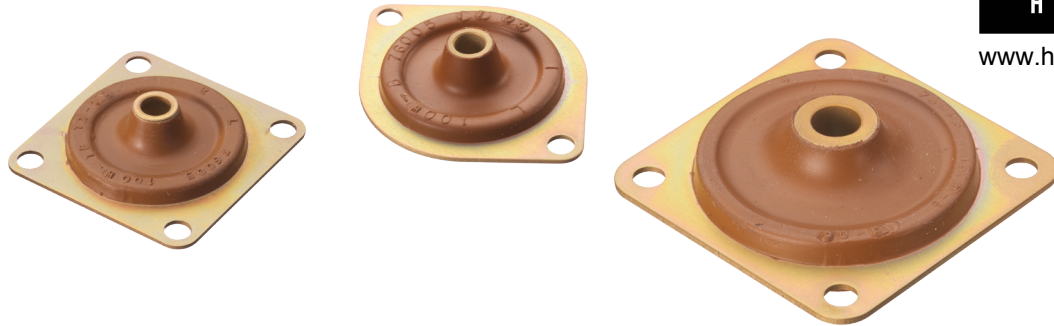


PLATE FORM MOUNTS

100 SERIES, 150 SERIES

Request Quote



FOR ISOLATION OF STEADY VIBRATION AND CONTROL OF OCCASIONAL SHOCK

Standard stock Plate Form Mounts are widely used to efficiently isolate steady-state vibration and control occasional shock.

These versatile mounts are available in load ratings of 0.25 to 12 pounds per mount. When loaded to their rated capacity, a system natural frequency of approximately 18 Hz results, providing effective isolation in applications where disturbing frequencies are 40 Hz and above. Radial stiffness is approximately two to three times the axial stiffness.

Standard Plate Form Mounts are easy to install. They are available in square or diamond configurations to suit a variety of design requirements. The contour of the flexing element provides uniform stress distribution. This, plus high-strength bonding and specially compounded elastomers, provide maximum service life.

NOTE: Snubbing washers are recommended for use with Plate Form Mounts. They form an interlocking system of metal parts, providing a positive safety, which limits and cushions excessive movement from overload and shock.

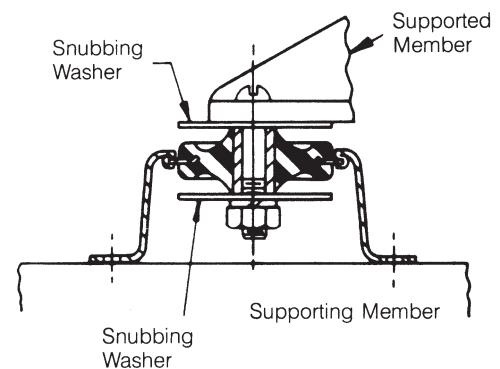
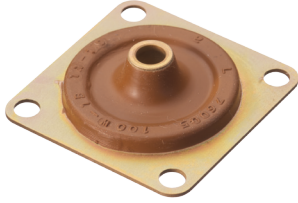


FIGURE 1 – TYPICAL INSTALLATION

PLATE FORM MOUNTS

100APL SERIES



- **Load capacity:**
0.25 to 6 lb (0.10 to 2.7 kg)

- **Materials:**
Metal parts and finish – aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A
Inner member – 2024-T4 aluminum
Outer member – 2024-T3 or 2024-T4 aluminum
Elastomer – LORD BTR® or BTR® II Silicone

FIGURE 1 – PART DIMENSIONS

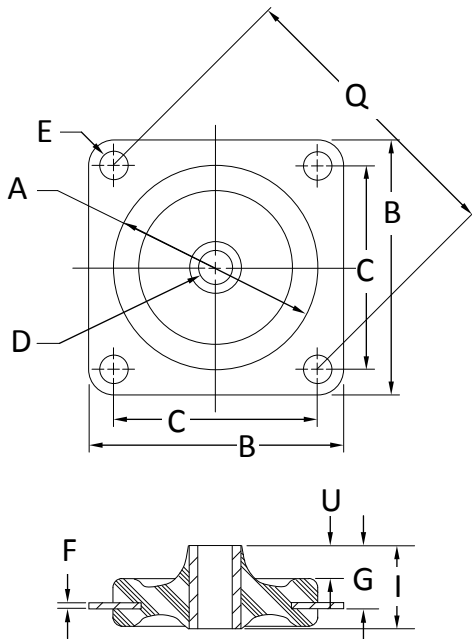


FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

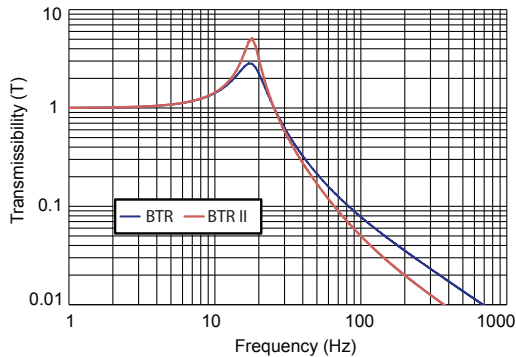


TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Static Load		Nominal Axial Natural Freq [†] (Hz)	Dynamic Axial Spring Rate [†]		Dimensions Under No Load			
	lb	kg		lb/in	N/mm	in		mm	
100APL*-A	¼	0.10	18	8	1.4	0.30	0.41	7.6	10.4
100APL*-B	½	0.20	18	17	2.9	0.30	0.41	7.6	10.4
100APL*-1	1	0.45	18	33	5.7	0.30	0.41	7.6	10.4
100APL*-1B	1½	0.70	18	50	8.7	0.30	0.41	7.6	10.4
100APL*-2	2	0.90	18	67	11.6	0.30	0.41	7.6	10.4
100APL*-3	3	1.40	18	100	17.4	0.30	0.41	7.6	10.4
100APL*-4	4	1.80	18	133	23.1	0.33	0.50	8.4	12.7
100APL*-5	5	2.30	18	167	29.1	0.39	0.62	9.9	15.7
100APL*-6	6	2.70	18	200	34.8	0.45	0.75	11.4	19.0

* When ordering, use the following in place of the (*):

Q = BTR II elastomer

W = BTR elastomer

[†] At 0.036 in (0.91 mm) D.A. input and rated load.

*Reference dimensions.

TABLE 2 – DIMENSIONS UNDER NO LOAD

	A *	B	C	D +0.008/-0.005 (+.20/-.12)	E +0.003/-0.002 (+.07/-.05)	F	Q	U *
in	1.00	1.25	1.00	0.166	0.141	0.032	1.414	0.15
mm	25.4	31.7	25.40	4.22	3.58	0.81	35.92	3.8

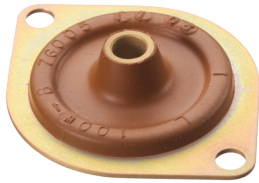
* Reference dimensions.

TABLE 3 – SNUBBING WASHER DIMENSIONS

Part Number J-2049-1D	Outside Diameter	Inside Diameter	Thickness
in	0.88	0.17	0.03
mm	22.3	4.3	0.8

PLATE FORM MOUNTS

100APDL SERIES



- **Load capacity:**
0.25 to 6 lb (0.10 to 2.7 kg)

- **Materials:**
Metal parts and finish – aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A
Inner member – 2024-T4 aluminum
Outer member – 2024-T3 or 2024-T4 aluminum
Elastomer – LORD BTR® or BTR® II Silicone

TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Static Load		Nominal Axial Natural Freq [†] (Hz)	Dynamic Axial Spring Rate [†]		Dimensions Under No Load			
						in		mm	
	lb	kg		lb/in	N/mm	G [*]	I	G [*]	I
100APDL*-A	¼	0.10	18	8	1.4	0.30	0.41	7.6	10.4
100APDL*-B	½	0.20	18	17	2.9	0.30	0.41	7.6	10.4
100APDL*-1	1	0.45	18	33	5.7	0.30	0.41	7.6	10.4
100APDL*-1B	1½	0.70	18	50	8.7	0.30	0.41	7.6	10.4
100APDL*-2	2	0.90	18	67	11.6	0.30	0.41	7.6	10.4
100APDL*-3	3	1.40	18	100	17.4	0.30	0.41	7.6	10.4
100APDL*-4	4	1.80	18	133	23.1	0.33	0.50	8.4	12.7
100APDL*-5	5	2.30	18	167	29.1	0.39	0.62	9.9	15.7
100APDL*-6	6	2.70	18	200	34.8	0.45	0.75	11.4	19.0

* When ordering, use the following in place of the (*):

Q = BTR II elastomer

W = BTR elastomer

† At 0.036 in (0.91 mm) D.A. input and rated load.

* Reference dimensions.

TABLE 2 – DIMENSIONS UNDER NO LOAD

	A [*]	D +0.008/-0.005 (+0.20/-12)	E +0.003/-0.002 (+0.07/-05)	F	Q	R	S	U [*]
in	1.00	0.166	0.141	0.032	1.414	0.62	1.66	0.15
mm	25.4	4.22	3.58	0.81	35.92	15.7	42.2	3.8

* Reference dimensions.

TABLE 3 – SNUBBING WASHER DIMENSIONS

Part Number J-2049-1D	Outside Diameter	Inside Diameter	Thickness
in	0.88	0.17	0.03
mm	22.3	4.3	0.80

FIGURE 1 – PART DIMENSIONS

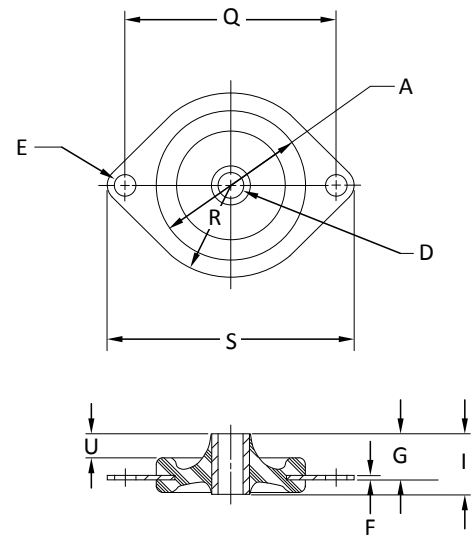


FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

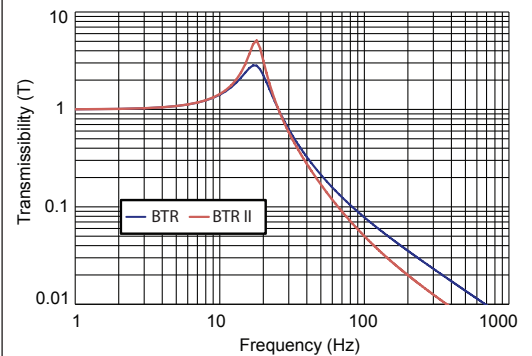
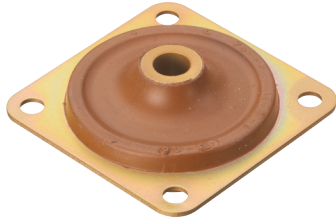


PLATE FORM MOUNTS

150APL SERIES



- **Load capacity:**
1 to 12 lb (0.45 to 5.4 kg)

- **Materials:**
Metal parts and finish – aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A
Inner member – 2024-T4 aluminum
Outer member – 2024-T3 or 2024-T4 aluminum
Elastomer – LORD BTR® or BTR® II Silicone

FIGURE 1 – PART DIMENSIONS

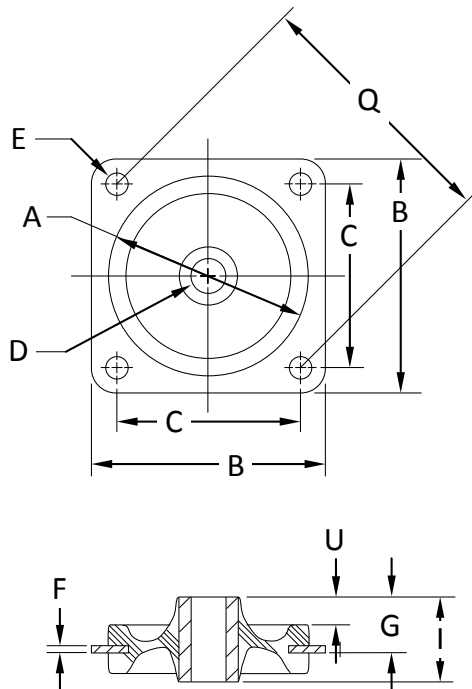


FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

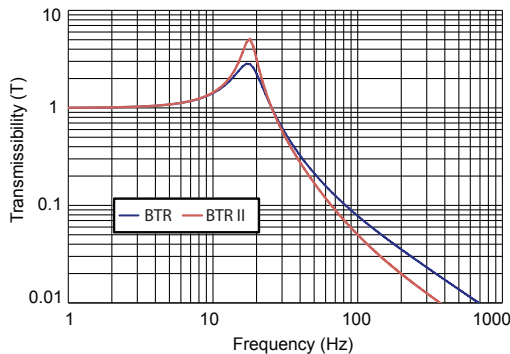


TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Static Load		Nominal Axial Natural Freq [†] (Hz)	Dynamic Axial Spring Rate [†]		Dimensions Under No Load			
	lb	kg		lb/in	N/mm	in		mm	
150APL*-1	1	0.45	18	33	5.7	0.40	0.62	10.2	15.7
150APL*-2	2	0.90	18	67	12	0.40	0.62	10.2	15.7
150APL*-3	3	1.40	18	100	17	0.40	0.62	10.2	15.7
150APL*-4	4	1.80	18	133	23	0.40	0.62	10.2	15.7
150APL*-5	5	2.30	18	167	29	0.40	0.62	10.2	15.7
150APL*-6	6	2.70	18	200	35	0.40	0.62	10.2	15.7
150APL*-7	7	3.17	18	233	41	0.40	0.62	10.2	15.7
150APL*-8	8	3.60	18	267	47	0.40	0.62	10.2	15.7
150APL*-9	9	4.10	18	300	52	0.56	0.88	14.2	22.3
150APL*-12	12	5.40	18	400	70	0.68	1.12	17.3	28.4

* When ordering, use the following in place of the (*):

Q = BTR II elastomer

W = BTR elastomer

[†] At 0.036 in (0.91 mm) D.A. input and rated load.

* Reference dimensions.

TABLE 2 – DIMENSIONS UNDER NO LOAD

	A *	B	C	D +0.008/-0.005 (+0.20/-12)	E +0.003/-0.002 (+0.07/-05)	F	Q	U *
in	1.50	1.75	1.375	0.257	0.166	0.050	1.945	0.18
mm	38.1	44.4	34.92	6.53	4.22	1.27	49.40	4.6

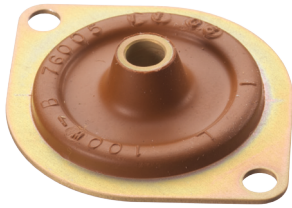
* Reference dimensions.

TABLE 3 – SNUBBING WASHER DIMENSIONS

Part Number J-2049-1D	Outside Diameter	Inside Diameter	Thickness
in	1.38	0.26	0.05
mm	35.0	6.6	1.3

PLATE FORM MOUNTS

150APDL SERIES



- **Load capacity:**
1 to 12 lb (0.45 to 5.4 kg)

- **Materials:**
Metal parts and finish – aluminum alloy, chromate treated per MIL-DTL-5541, Class 1A
Inner member – 2024-T4 aluminum
Outer member – 2024-T3 or 2024-T4 aluminum
Elastomer – LORD BTR® or BTR® II Silicone

TABLE 1 – PERFORMANCE CHARACTERISTICS

Part Number	Static Load		Nominal Axial Natural Freq [†] (Hz)	Dynamic Axial Spring Rate [†]		Dimensions Under No Load			
						in		mm	
	lb	kg		lb/in	N/mm	G	I *	G	I *
150APDL*-1	1	0.45	18	33	5.7	0.40	0.62	10.2	15.7
150APDL*-2	2	0.90	18	67	12	0.40	0.62	10.2	15.7
150APDL*-3	3	1.40	18	100	17	0.40	0.62	10.2	15.7
150APDL*-4	4	1.80	18	133	23	0.40	0.62	10.2	15.7
150APDL*-5	5	2.30	18	167	29	0.40	0.62	10.2	15.7
150APDL*-6	6	2.70	18	200	35	0.40	0.62	10.2	15.7
150APDL*-7	7	3.17	18	233	41	0.40	0.62	10.2	15.7
150APDL*-8	8	3.60	18	267	47	0.40	0.62	10.2	15.7
150APDL*-9	9	4.10	18	300	52	0.56	0.88	14.2	22.3
150APDL*-12	12	5.40	18	400	70	0.68	1.12	17.3	28.4

* When ordering, use the following in place of the (*):

Q = BTR II elastomer

W = BTR elastomer

[†] At 0.036 in (0.91 mm) D.A. input and rated load.

*Reference dimensions.

TABLE 2 – DIMENSIONS UNDER NO LOAD

	A *	D +0.008/-0.005 (+0.20/-12)	E +0.003/-0.002 (+0.07/-05)	F	Q	R	S	U *
in	1.50	0.257	0.166	0.050	1.945	0.88	2.32	0.18
mm	38.1	6.53	4.22	1.27	49.40	22.4	58.9	4.6

*Reference dimensions.

TABLE 3 – SNUBBING WASHER DIMENSIONS

Part Number J-2049-1D	Outside Diameter	Inside Diameter	Thickness
in	1.38	0.26	0.05
mm	35.0	6.6	1.3

FIGURE 1 – PART DIMENSIONS

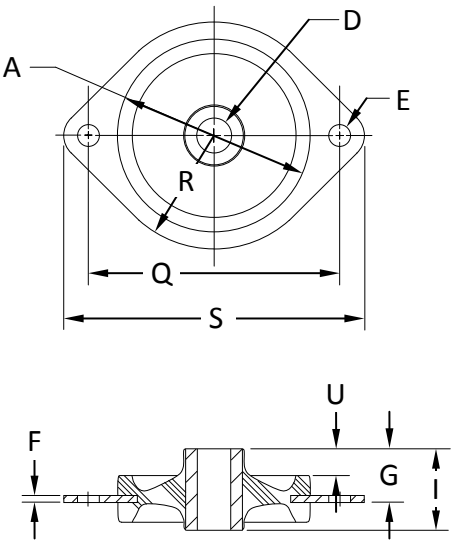


FIGURE 2 – TRANSMISSIBILITY VS. FREQUENCY

