

MS-MOUNT SERIES (L44/L64)

Low-frequency, highly damped mounts for a high level of vibration isolation.

APPLICATIONS

- Avionic equipment in propeller driven aircraft
- Sensitive instrumentation and medical equipment
- Stationary applications where cost effective, low frequency isolation is required

FEATURES

- Marking of mounts with military designations available on special order
- Aluminum construction
- Axial to radial stiffness of 4:1
- For base mounting only
- Fail safe construction

BENEFITS

- Isolation performance maintained in attitudes up to 10° from the horizontal
- Low ratio of horizontal and vertical stiffness which holds transmissibility in rocking modes to unusually low magnitudes

LOAD RANGE

- L21/L22 = 7 load ranges from .35 - 4 lbs. per mount
- L44 = 7 load ratings from .25 - 10 lbs. per mount
- L64 = 7 load ratings from 2.0 - 40 lbs. per mount



Barry L-Mounts increase equipment reliability and extend component life by providing isolation for frequencies as low as 10 Hertz and exhibiting low transmissibility at resonance (below 2.5) with .60" double amplitude vibratory input.

Specifications

• Natural Frequency	7-10 Hertz
• Transmissibility at resonance	2.5
• Resilient Element	Friction damped spring
• Standard Materials	Aluminum
• Weight	L44 = .098 lbs. L64 = .226 lbs.

Environmental Data

- Operating temperature ranges of -67°F to +250°F (-55°C to +120°C).
- Meets vibration and shock requirements of MIL-C-172C.
- L44 and L64 isolators are known as "MS" (Military Standard) mounts and appear on QPL's.

L-MOUNT SERIES: L21/L22/L44/L64

Load Range & MS Specifications

LOAD RANGES (L21/L22/L44 SERIES)	
Part #	Static Load/Isolator
L21 & L22-BA-0.5	0.38-0.54 lbs.
L21 & L22-BA-0.7	0.44-0.75 lbs.
L21 & L22-BA-1.0	0.56-1.00 lbs.
L21 & L22-BA-1.3	0.88-1.30 lbs.
L21 & L22-BA-2.0	1.20-2.00 lbs.
L21 & L22-BA-3.0	1.70-3.00 lbs.
L21 & L22-BA-4.0	2.50-4.00 lbs.
L44-AA-5 & BA-5	0.25-.50 lbs.
L44-AA-1 & BA-1	0.50-1.00 lbs.
L44-AA-2 & BA-2	1.0-2.0 lbs.
L44-AA-3 & BA-3	1.50-3.0 lbs.
L44-AA-4 & BA-4	2.0-4.0 lbs.
L44-AA-5 & BA-5	2.5-5.0 lbs.
L44-AA-10 & BA-10	5.0-10.0 lbs.
L64-AA-4, BA-4, CA-4 & DA-4	2.0-4.5 lbs.
L64-AA-6, BA-6, CA-6 & DA-6	3.0-6.0 lbs.
L64-AA-10, BA-10, CA-10 & DA-10	4.5-10.0 lbs.
L64-AA-12, BA-12, CA-12 & DA-12	6.25-12.5 lbs.
L64-AA-16, BA-16, CA-16 & DA-16	9.0-16.0 lbs.
L64-AA-20, BA-20, CA-20 & DA-20	10.0-20.0 lbs.
L64-AA-40, BA-40, CA-40 & DA-40	20.0-40.0 lbs.

L64 Series Load Range, "H" Dimension and MS Designation

**Military designation load ranges are tighter than Barry Standard*

Part #	*Load Range (lbs.)	*Military Designation	"H"
L64-AA-4	1.91-2.59	MS91418-2BAL	1.405
L64-BA-4	1.91-2.59	MS91418-2BAS	1.571
L64-CA-4	1.91-2.59	MS91418-2BAD	1.405
L64-DA-4	1.91-2.59	MS91418-2BAH	1.571
L64-AA-4	2.0-4.5	MS91418-2AAL	1.399
L64-BA-4	2.0-4.5	MS91418-2AAS	1.565
L64-CA-4	2.0-4.5	MS91527-2AAD	1.399
L64-DA-4	2.0-4.5	MS91527-2AAH	1.565
L64-AA-4	2.55-3.45	MS91418-2BBL	1.352
L64-BA-4	2.55-3.45	MS91418-2BBS	1.518
L64-CA-4	2.55-3.45	MS91527-2ABD	1.352
L64-DA-4	2.55-3.45	MS91527-2BBH	1.518
L64-AA-6	3.0-5.0	MS91418-2ABL	1.390
L64-BA-6	3.0-5.0	MS91418-2ABS	1.556
L64-CA-6	3.0-5.0	MS91527-2ABD	1.390
L64-DA-6	3.0-5.0	MS91527-2ABH	1.556
L64-AA-6	3.40-4.60	MS91418-2BCL	1.365
L64-BA-6	3.40-4.60	MS91418-2BCS	1.561
L64-CA-6	3.40-4.60	MS91527-2BCD	1.365
L64-DA-6	3.40-4.60	MS91527-2BCH	1.561
L64-AA-10	4.5-10.0	MS91418-2ACL	1.395
L64-BA-10	4.5-10.0	MS91418-2ACS	1.561
L64-CA-10	4.5-10.0	MS91527-2ACD	1.395
L64-DA-10	4.5-10.0	MS91527-2ACH	1.561
L64-AA-10	4.67-6.33	MS91418-2BDL	1.392
L64-BA-10	4.67-6.33	MS91418-2BDS	1.558
L64-CA-10	4.67-6.33	MS91527-2BDD	1.392
L64-DA-10	4.67-6.33	MS91527-2BDH	1.558
L64-AA-10	6.37-8.63	MS91418-2BEL	1.362
L64-BA-10	6.37-8.63	MS91418-2BES	1.528
L64-CA-10	6.37-8.63	MS91527-2BED	1.362
L64-DA-10	6.37-8.63	MS91527-2BEH	1.528
L64-AA-12	6.25-12.50	MS91418-2ADL	1.372
L64-BA-12	6.25-12.50	MS91418-2ADS	1.538
L64-CA-12	6.25-12.50	MS91527-2ADD	1.372
L64-DA-12	6.25-12.50	MS91527-2ADH	1.538
L64-AA-12	8.50-11.50	MS91418-2BFL	1.339
L64-BA-12	8.50-11.50	MS91418-2BFS	1.505
L64-CA-12	8.50-11.50	MS91527-2BFD	1.339
L64-DA-12	8.50-11.50	MS91527-2BFH	1.505
L64-AA-16	9.0-16.0		1.323
L64-BA-16	9.0-16.0		1.489
L64-CA-16	9.0-16.0		1.323
L64-DA-16	9.0-16.0		1.489
L64-AA-20	10.0-20.0	MS91418-2AEL	1.391
L64-BA-20	10.0-20.0	MS91418-2AES	1.557
L64-CA-20	10.0-20.0	MS91527-2AED	1.391
L64-DA-20	10.0-20.0	MS91527-2AEH	1.557
L64-AA-20	11.48-15.53	MS91418-2BGL	1.366
L64-BA-20	11.48-15.53	MS91418-2BGS	1.532
L64-CA-20	11.48-15.53	MS91527-2BGD	1.366
L64-DA-20	11.48-15.53	MS91527-2BGH	1.532
L64-BA-20	15.30-20.70	MS91418-2BHL	1.406
L64-DA-20	15.30-20.70	MS91527-2BHD	1.406
L64-AA-40	20.0-40.0		1.400
L64-BA-40	20.0-40.0		1.566
L64-CA-40	20.0-40.0		1.400
L64-DA-40	20.0-40.0		1.400

L-MOUNT SERIES: L21/L22/L44/L64

Load Range & MS Specifications

Load Range in Pounds	Military** Designation	Barry Type No.	Weight ounces	H dimension (tolerance $\pm .045$ "*)		
				Under Min. rated load	Maximum extended*	Minimum compressed*
0.25 - 0.50	See note	L44-AA-1/2	17/16	1.371	1.632	0.975
0.25 - 0.50	See note	L44-BA-1/2	11/2	1.527	1.788	1.131
0.17 - 0.23	MS91418-1BAL MS91527-1BAD	L44-CA-1/2	17/16	1.395	1.594	0.937
0.17 - 0.23	MS91418-1BAS MS91527-1BAH	L44-BA-1/2	11/2	1.589	1.788	1.131
0.25 - 0.35	MS91418-1BBL MS91527-1BBD	L44-AA-1/2	17/16	1.392	1.632	0.975
0.25 - 0.35	MS91418-1BBS MS91527-1BBH	L44-BA-1/2	11/2	1.562	1.788	1.131
0.34 - 0.46	MS91418-1BCL MS91527-1BCD	L44-AA-1/2	17/16	1.347	1.632	0.975
0.34 - 0.46	MS91418-1BCS MS91527-1BCH	L44-BA-1/2	11/2	1.520	1.788	1.131
0.50 - 1.00	See note	L44-AA-1	17/16	1.389	1.632	0.975
0.50 - 1.00	See note	L44-BA-1	11/2	1.545	1.788	1.131
0.51 - 0.69	MS91418-1BDL MS91527-1BDD	L44-AA-1	17/16	1.395	1.632	0.975
0.51 - 0.69	MS91418-1BDS MS91527-1BDH	L44-BA-1	11/2	1.562	1.788	1.131
0.68 - 0.92	MS91418-1BEL MS91527-1BED	L44-AA-1	17/16	1.352	1.632	0.975
0.68 - 0.92	MS91418-1BES MS91527-1BEH	L44-BA-1	11/2	1.526	1.788	1.131
0.85 - 1.15	MS91418-1BFL MS91527-1BFD	L44-AA-1	17/16	1.342	1.632	0.975
0.85 - 1.15	MS91418-1BFS MS91527-1BFH	L44-BA-1	11/2	1.501	1.788	1.131
1.00 - 2.00	See note	L44-AA-2	17/16	1.404	1.632	0.975
1.00 - 2.00	See note	L44-BA-2	11/2	1.566	1.788	1.131
1.16 - 1.58	MS91418-1BGL MS91527-1BGD	L44-AA-2	17/16	1.376	1.632	0.975
1.16 - 1.58	MS91418-1BGS MS91527-1BGH	L44-BA-2	11/2	1.562	1.788	1.131
1.48 - 2.01	MS91418-1BHL MS91527-1BHD	L44-AA-2	17/16	1.335	1.632	0.975
1.48 - 2.01	MS91418-1BHS MS91527-1BHH	L44-BA-2	11/2	1.525	1.788	1.131
1.50 - 3.00	See note	L44-AA-3	11/2	1.404	1.632	0.975
1.50 - 3.00	See note	L44-BA-3	19/16	1.566	1.788	1.131
1.50 - 3.00	MS91418-1AAL MS91527-1AAD	L44-AA-3	11/2	1.404	1.632	0.975
1.50 - 3.00	MS91418-1AAS MS91527-1AAH	L44-BA-3	19/16	1.562	1.788	1.131
2.01 - 2.73	MS91418-1BJL MS91527-1BJD	L44-AA-3	11/2	1.346	1.632	0.975
2.01 - 2.73	MS91418-1BJS MS91527-1BJH	L44-BA-3	19/16	1.562	1.788	1.131
2.00 - 4.00	See note	L44-AA-4	11/2	1.401	1.632	0.975
2.00 - 4.00	See note	L44-BA-4	19/16	1.557	1.788	1.131
2.76 - 3.73	MS91418-1BKL MS91527-1BKD	L44-AA-4	11/2	1.349	1.632	0.975
2.76 - 3.73	MS91418-1BKS MS91527-1BKH	L44-BA-4	19/16	1.524	1.788	1.131
2.50 - 5.00	See note	L44-AA-5	11/2	1.393	1.632	0.975
2.50 - 5.00	See note	L44-BA-5	19/16	1.549	1.788	1.131
2.50 - 5.50	MS91418-1ABL MS91527-1ABD	L44-AA-5	11/2	1.393	1.632	0.975
2.50 - 5.50	MS91418-1ABS MS91527-1ABH	L44-BA-5	19/16	1.562	1.788	1.131
3.61 - 4.89	MS91418-1BLL MS91527-1BLD	L44-AA-5	11/2	1.338	1.632	0.975
3.61 - 4.89	MS91418-1BLS MS91527-1BLH	L44-BA-5	19/16	1.523	1.788	1.131
5.00 - 10.00	See note	L44-AA-10	11/2	1.395	1.632	0.975
5.00 - 10.00	See note	L44-BA-10	19/16	1.551	1.788	1.131
4.89 - 6.61	MS91418-1BML MS91527-1BMD	L44-AA-10	11/2	1.399	1.632	0.975
4.89 - 6.61	MS91418-1BMS MS91527-1BMH	L44-BA-10	19/16	1.562	1.788	1.131
6.58 - 8.91	MS91418-1BNL MS91527-1BND	L44-AA-10	11/2	1.379	1.632	0.975
6.58 - 8.91	MS91418-1BNS MS91527-1BNH	L44-BA-10	19/16	1.535	1.788	1.131
8.50 - 11.50	MS91418-1BOL MS91527-1BOD	L44-AA-10	11/2	1.343	1.632	0.975
8.50 - 11.50	MS91418-1BOS MS91527-1BOH	L44-BA-10	19/16	1.501	1.788	1.131

NOTE: All standard L44 Barrymounts have a 2-to-1 load range to meet performance requirements of Spec. MIL-C-172C and are designated -AA and -BA in table above. Other designations listed above are designed to meet Class B requirements of Spec. MIL-C-172C for specified load rating ($\pm 15\%$).
 ** Parts will not be stamped with military designation unless specifically requested.
 * Under 15-times maximum rated load.

HUTCHINSON MS91418 AND MS91527 L MOUNT PART NUMBER CONVERSIONS

HUTCHINSON PART NUMBER	MS PART NUMBER
L44-AA-1	MS91418-1BDL
L44-AA-1	MS91418-1BEL
L44-AA-1	MS91418-1BFL
L44-AA-1	MS91527-1BDD
L44-AA-1	MS91527-1BED
L44-AA-1	MS91527-1AFD
L44-AA-1/2	MS91418-1BBL
L44-AA-1/2	MS91418-1BCL
L44-AA-1/2	MS91527-1BBD
L44-AA-1/2	MS91527-1BCD
L44-AA-10	MS91418-1BML
L44-AA-10	MS91418-1BNL
L44-AA-10	MS91418-1BOL
L44-AA-10	MS91527-1BMD
L44-AA-10	MS91527-1BND
L44-AA-10	MS91527-1BOD
L44-AA-2	MS91418-1BGL
L44-AA-2	MS91418-1BHL
L44-AA-2	MS91527-1AGD
L44-AA-2	MS91527-1BHD
L44-AA-3	MS91418-1BJL
L44-AA-3	MS91527-1AAD
L44-AA-3	MS91418-1AAL
L44-AA-3	MS91527-1BJD
L44-AA-4	MS91418-1BKL
L44-AA-4	MS91527-1BKD
L44-AA-5	MS91418-1BLL
L44-AA-5	MS91527-1BLD
L44-AA-5	MS91418-1ABL
L44-AA-5	MS91527-1ABD
L44-BA-1	MS91418-1BDS
L44-BA-1	MS91418-1BES
L44-BA-1	MS91418-1BFS
L44-BA-1	MS91527-1BDH
L44-BA-1	MS91527-1BEH
L44-BA-1	MS91527-1AFH
L44-BA-1/2	MS91418-1BAS
L44-BA-1/2	MS91418-1BBS
L44-BA-1/2	MS91418-1BCS
L44-BA-1/2	MS91527-1BAH
L44-BA-1/2	MS91527-1BBH
L44-BA-1/2	MS91527-1BCH

MS PART NUMBER	HUTCHINSON PART NUMBER
MS91418-1AAL	L44-AA-3
MS91418-1AAS	L44-BA-3
MS91418-1ABL	L44-AA-5
MS91418-1ABS	L44-BA-5
MS91418-1BAL	L44-CA-1/2
MS91418-1BAS	L44-BA-1/2
MS91418-1BBL	L44-AA-1/2
MS91418-1BBS	L44-BA-1/2
MS91418-1BCL	L44-AA-1/2
MS91418-1BCS	L44-BA-1/2
MS91418-1BDL	L44-AA-1
MS91418-1BDS	L44-BA-1
MS91418-1BEL	L44-AA-1
MS91418-1BES	L44-BA-1
MS91418-1BFL	L44-AA-1
MS91418-1BFS	L44-BA-1
MS91418-1BGL	L44-AA-2
MS91418-1BGS	L44-BA-2
MS91418-1BHL	L44-AA-2
MS91418-1BHS	L44-BA-2
MS91418-1BJL	L44-AA-3
MS91418-1BJS	L44-BA-3
MS91418-1BKL	L44-AA-4
MS91418-1BKS	L44-BA-4
MS91418-1BLL	L44-AA-5
MS91418-1BLS	L44-BA-5
MS91418-1BML	L44-AA-10
MS91418-1BMS	L44-BA-10
MS91418-1BNL	L44-AA-10
MS91418-1BNS	L44-BA-10
MS91418-1BOL	L44-AA-10
MS91418-1BOS	L44-BA-10
MS91418-2AAL	L64-AA-4
MS91418-2AAS	L64-BA-4
MS91418-2ABL	L64-AA-6
MS91418-2ABS	L64-BA-6
MS91418-2ACL	L64-AA-10
MS91418-2ACS	L64-BA-10
MS91418-2ADL	L64-AA-12
MS91418-2ADS	L64-BA-12
MS91418-2AEL	L64-AA-20
MS91418-2AES	L64-BA-20

HUTCHINSON MS91418 AND MS91527 L MOUNT PART NUMBER CONVERSIONS

HUTCHINSON PART NUMBER	MS PART NUMBER
L44-BA-10	MS91418-1BMS
L44-BA-10	MS91418-1BNS
L44-BA-10	MS91418-1BOS
L44-BA-10	MS91527-1BMH
L44-BA-10	MS91527-1BNH
L44-BA-10	MS91527-1BOH
L44-BA-2	MS91418-1BGS
L44-BA-2	MS91418-1BHS
L44-BA-2	MS91527-1AGH
L44-BA-2	MS91527-1BHH
L44-BA-3	MS91418-1BJS
L44-BA-3	MS91418-1AAS
L44-BA-3	MS91527-1AAH
L44-BA-3	MS91527-1BJH
L44-BA-4	MS91418-1BKS
L44-BA-4	MS91527-1BKH
L44-BA-5	MS91418-1BLS
L44-BA-5	MS91418-1ABS
L44-BA-5	MS91527-1ABH
L44-BA-5	MS91527-1BLH
L44-CA-1/2	MS91418-1BAL
L44-CA-1/2	MS91527-1BAD
L64-AA-10	MS91418-2ACL
L64-AA-10	MS91418-2BDL
L64-AA-10	MS91418-2BEL
L64-AA-12	MS91418-2ADL
L64-AA-12	MS91418-2BFL
L64-AA-20	MS91418-2AEL
L64-AA-20	MS91418-2BGL
L64-AA-4	MS91418-2AAL
L64-AA-4	MS91418-2BAL
L64-AA-4	MS91418-2BBL
L64-AA-6	MS91418-2ABL
L64-AA-6	MS91418-2BCL
L64-BA-10	MS91418-2ACS
L64-BA-10	MS91418-2BDS
L64-BA-10	MS91418-2BES
L64-BA-12	MS91418-2ADS
L64-BA-12	MS91418-2BFS
L64-BA-20	MS91418-2AES
L64-BA-20	MS91418-2BGS
L64-BA-20	MS91418-2BHL

MS PART NUMBER	HUTCHINSON PART NUMBER
MS91418-2BAL	L64-AA-4
MS91418-2BAS	L64-BA-4
MS91418-2BBL	L64-AA-4
MS91418-2BBS	L64-BA-4
MS91418-2BCL	L64-AA-6
MS91418-2BCS	L64-BA-6
MS91418-2BDL	L64-AA-10
MS91418-2BDS	L64-BA-10
MS91418-2BEL	L64-AA-10
MS91418-2BES	L64-BA-10
MS91418-2BFL	L64-AA-12
MS91418-2BFS	L64-BA-12
MS91418-2BGL	L64-AA-20
MS91418-2BGS	L64-BA-20
MS91418-2BHL	L64-BA-20
MS91527-1AAD	L44-AA-3
MS91527-1AAH	L44-BA-3
MS91527-1ABD	L44-AA-5
MS91527-1ABH	L44-BA-5
MS91527-1AFD	L44-AA-1
MS91527-1AFH	L44-BA-1
MS91527-1AGD	L44-AA-2
MS91527-1AGH	L44-BA-2
MS91527-1BAD	L44-CA-1/2
MS91527-1BAH	L44-BA-1/2
MS91527-1BBD	L44-AA-1/2
MS91527-1BBH	L44-BA-1/2
MS91527-1BCD	L44-AA-1/2
MS91527-1BCH	L44-BA-1/2
MS91527-1BDD	L44-AA-1
MS91527-1BDH	L44-BA-1
MS91527-1BED	L44-AA-1
MS91527-1BEH	L44-BA-1
MS91527-1BHD	L44-AA-2
MS91527-1BHH	L44-BA-2
MS91527-1BJD	L44-AA-3
MS91527-1BJH	L44-BA-3
MS91527-1BKD	L44-AA-4
MS91527-1BKH	L44-BA-4
MS91527-1BLD	L44-AA-5
MS91527-1BLH	L44-BA-5
MS91527-1BMD	L44-AA-10

HUTCHINSON MS91418 AND MS91527 L MOUNT PART NUMBER CONVERSIONS

HUTCHINSON PART NUMBER	MS PART NUMBER
L64-BA-4	MS91418-2AAS
L64-BA-4	MS91418-2BAS
L64-BA-4	MS91418-2BBS
L64-BA-6	MS91418-2ABS
L64-BA-6	MS91418-2BCS
L64-CA-10	MS91527-2ACD
L64-CA-10	MS91527-2BDD
L64-CA-10	MS91527-2BED
L64-CA-12	MS91527-2ADD
L64-CA-12	MS91527-2BFD
L64-CA-20	MS91527-2AED
L64-CA-20	MS91527-2BGD
L64-CA-4	MS91527-2AAD
L64-CA-4	MS91527-2BAD
L64-CA-4	MS91527-2BBD
L64-CA-6	MS91527-2BCD
L64-CA-6	MS91527-2ABD
L64-DA-10	MS91527-2ACH
L64-DA-10	MS91527-2BDH
L64-DA-10	MS91527-2BEH
L64-DA-12	MS91527-2ADH
L64-DA-12	MS91527-2BFH
L64-DA-20	MS91527-2AEH
L64-DA-20	MS91527-2BGH
L64-DA-20	MS91527-2BHD
L64-DA-4	MS91527-2AAH
L64-DA-4	MS91527-2BAH
L64-DA-4	MS91527-2BBH
L64-DA-6	MS91527-2ABH
L64-DA-6	MS91527-2BCH

MS PART NUMBER	HUTCHINSON PART NUMBER
MS91527-1BMH	L44-BA-10
MS91527-1BND	L44-AA-10
MS91527-1BNH	L44-BA-10
MS91527-1BOD	L44-AA-10
MS91527-1BOH	L44-BA-10
MS91527-2AAD	L64-CA-4
MS91527-2AAH	L64-DA-4
MS91527-2ABD	L64-CA-6
MS91527-2ABH	L64-DA-6
MS91527-2ACD	L64-CA-10
MS91527-2ACH	L64-DA-10
MS91527-2ADD	L64-CA-12
MS91527-2ADH	L64-DA-12
MS91527-2AED	L64-CA-20
MS91527-2AEH	L64-DA-20
MS91527-2BAD	L64-CA-4
MS91527-2BAH	L64-DA-4
MS91527-2BBD	L64-CA-4
MS91527-2BBH	L64-DA-4
MS91527-2BCD	L64-CA-6
MS91527-2BCH	L64-DA-6
MS91527-2BDD	L64-CA-10
MS91527-2BDH	L64-DA-10
MS91527-2BED	L64-CA-10
MS91527-2BEH	L64-DA-10
MS91527-2BFD	L64-CA-12
MS91527-2BFH	L64-DA-12
MS91527-2BGD	L64-CA-20
MS91527-2BGH	L64-DA-20
MS91527-2BHD	L64-DA-20