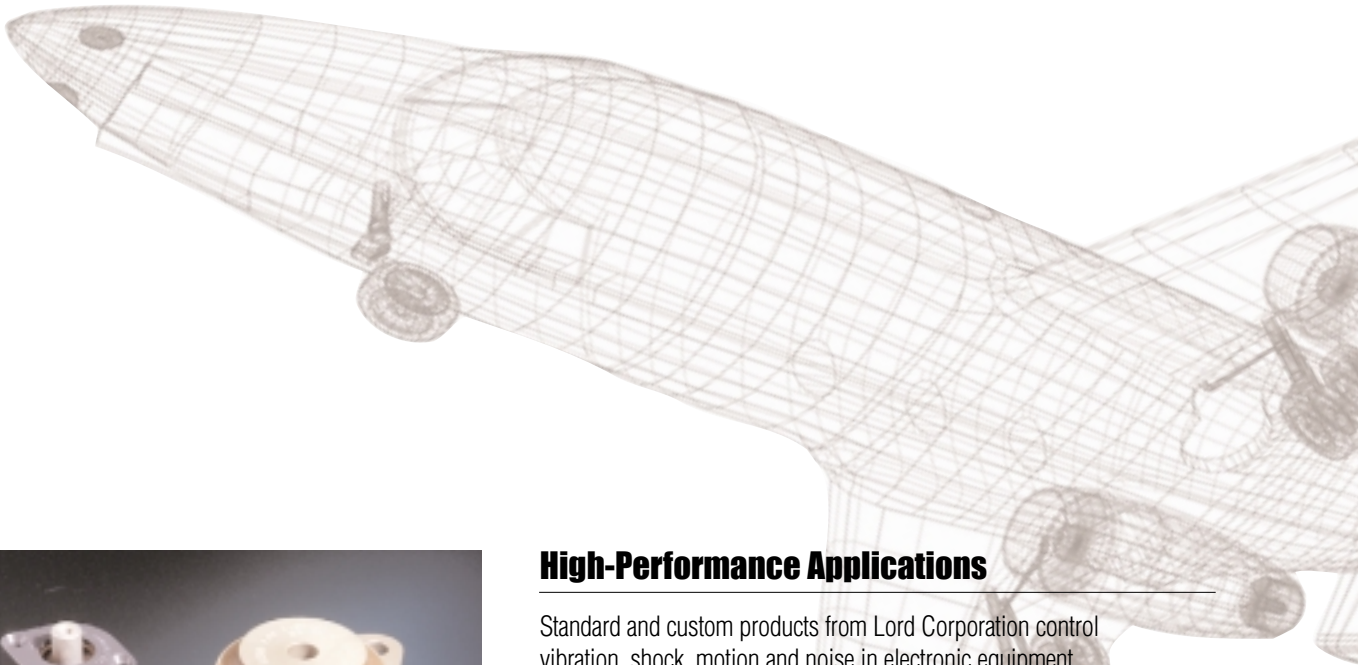

Electronic Equipment Isolators for the Aerospace Industry



High-Performance Applications

Standard and custom products from Lord Corporation control vibration, shock, motion and noise in electronic equipment applications. Our products protect and support instrumentation, monitoring and sensing devices, display units, and a range of control systems and components. Typical applications for Lord equipment isolators include inertial guidance and navigation systems, global positioning units, radar system components, pressure sensors, fuel controls and oil coolers. The Lord line of products also includes shipping container mounts that protect valuable products in transit from the shock that occurs during shipping and handling.

Product Selection

The standard products in this quick reference guide are designed for typical aerospace electronic and shipping container applications. The guide will help you select the most appropriate vibration isolator for your needs. The products listed operate in environments of -65°F to $+300^{\circ}\text{F}$, with the exception of shipping container mounts, which operate in conditions ranging from -65°F to $+165^{\circ}\text{F}$.

LORD

SOLUTIONS FOR A WORLD IN MOTION

Typical Aerospace Applications

| | PRODUCT NAME | MOUNT TYPE | RATED LOAD RANGE | | MAXIMUM DEFLECTION CAPABILITY | | RATED DYNAMIC SPRING RATE | | NATURAL FREQUENCY AT RATED LOAD |
|---|--------------------------------------|-----------------------------|------------------|---------|-------------------------------|-----------|---------------------------|------------|---------------------------------|
| | | | MIN lbs | MAX lbs | AXIAL in | RADIAL in | MIN lbs/in | MAX lbs/in | Hz |
| INSTRUMENTATION | | | | | | | | | |
|  | MULTIPLANE | PLATE-TYPE | 0.25 | 8 | 0.50 | 0.26 | 3 | 80 | 10 |
|  | PLATFORM | PLATE-TYPE | 0.25 | 12 | 0.50 | 0.26 | 8 | 400 | 18 |
| ELECTRONIC MODULES | | | | | | | | | |
|  | AM SERIES-SMALL | LOW-PROFILE | 3 | 4.5 | 0.30 | 0.30 | 63 | 482 | 12-45 |
|  | AM SERIES-MEDIUM | LOW-PROFILE | 4 | 10 | 0.23 | 0.23 | 61 | 1844 | 12-45 |
|  | AM SERIES-LARGE | LOW-PROFILE | 15 | 25 | 0.23 | 0.23 | 700 | 4550 | 12-45 |
| AVIONIC EQUIPMENT | | | | | | | | | |
|  | PEDESTAL MOUNT | FAIL-SAFE, FULLY-BONDED CUP | 8 | 60 | 0.19 | 0.22 | 638 | 3190 | 25 |
| SHIPPING CONTAINER | | | | | | | | | |
|  | J-18106 J-18100 J-18101 SERIES | SHIPPING CONTAINER | 55 | 310 | 0.80 | 6.50 | 155 | 965 | 7-10 |
|  | J-18102 J-18105 SERIES | SHIPPING CONTAINER | 110 | 450 | 1.0 | 4.90 | 290 | 1250 | 7-10 |
|  | J-18104 J-18103 SERIES | SHIPPING CONTAINER | 415 | 1310 | 2.0 | 5.90 | 1060 | 3880 | 7-10 |

More Demanding Requirements

| | PRODUCT NAME | MOUNT TYPE | RATED LOAD RANGE | | MAXIMUM DEFLECTION CAPABILITY | | RATED DYNAMIC SPRING RATE | | NATURAL FREQUENCY AT RATED LOAD |
|---|----------------|--|------------------|---------|-------------------------------|-----------|---------------------------|------------|---------------------------------|
| | | | MIN lbs | MAX lbs | AXIAL in | RADIAL in | MIN lbs/in | MAX lbs/in | Hz |
| SPACE-CONSERVING, ELECTRONIC MODULES | | | | | | | | | |
|  | MCB SERIES | FAIL-SAFE, CENTER-BONDED | 1 | 10 | 0.14 | 0.12 | 575 | 27,000 | 40-120 |
|  | MGN/MGS SERIES | LIGHT-DUTY GROMMET | 1 | 4 | 0.10 | 0.10 | 26 | 144 | 14-20 |
|  | MAA SERIES | MINIATURE | 0.50 | 2 | 0.13 | 0.13 | 37 | 4185 | 27-165 |
| ALL-ATTITUDE, SENSITIVE EQUIPMENT FOR SEVERE DUTY | | | | | | | | | |
|  | HT/UT SERIES | FAIL-SAFE, BROAD TEMPERATURE RANGE TYPE HOLDER | 1 | 150 | 0.40 | 0.26 | 49 | 6122 | 18-22 |
| SEVERE SHOCK | | | | | | | | | |
|  | HDM SERIES | HIGH DEFLECTION | 12 | 50 | 0.75 | 3.0 | 620 | 2584 | 25-28 |
|  | SHDM SERIES | EXTRA-SOFT HIGH DEFLECTION | 1 | 12 | 1.0 | 2.0 | 75 | 150 | 9-25 |
| EXTREME TEMPERATURE (UP TO +500° F) | | | | | | | | | |
|  | MM SERIES | METAL MESH COMPRESSION | 0.50 | 14 | 0.30 | 0.25 | 64 | 7000 | 25-70 |
| VERY LIGHTWEIGHT SYSTEMS | | | | | | | | | |
|  | MX SERIES | MICRO-MOUNTS | — | 0.20 | 0.50 | 0.75 | 2 | 12 | 15-34 |

Proven Solutions

From our first rubber-to-metal engine mount in the 1930s to today's advanced active control systems, Lord Corporation has developed real-world solutions for the aerospace industry's toughest problems. In addition to our standard products, we develop custom, high-performance products for military and commercial electronics on aircraft, spacecraft, ships and ground vehicles. Customers rely on our expertise in:

- Acoustic and vibration problem diagnosis;
- Product design, development and manufacturing;
- Dynamic vibration and noise testing;
- Complete system optimization.

Lord products are available around the world through a service and support network that includes offices throughout North America, Europe and Asia.

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