ENGINEERING DATA FOR VIBRATION AND SHOCK ISOLATOR QUESTIONNAIRE

Please fill in as much detail as possible before contacting LORD. You may fax or e-mail this completed form.

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I. PHYSICAL DATA
   A. Equipment weight __________________________________________________________________________________________________________
   B. C.G. location relative to mounting points ______________________________________________________________________________________
   C. Sway space _______________________________________________________________________________________________________________
   D. Maximum mounting size ____________________________________________________________________________________________________
   E. Equipment and support structure resonance frequencies _______________________________________________________________________
   F. Moment of inertia through C.G. for major axes (necessary for natural frequency and coupling calculations)
      I xx ___________________________ I yy ___________________________ I zz ___________________________
   G. Fail-safe installation required?      Yes       No

II. DYNAMICS DATA
   A. Vibration requirement:
      1. Sinusoidal inputs (specify sweep rate, duration and magnitude or application input specification curve)
      2. Random inputs (specify duration and magnitude (g²/Hz) applicable input specification curve)
   B. Resonant dwell (input & duration) __________________________________________________________________________________________
   C. Shock requirement:
      1. Pulse shape________________________ pulse period_________________________ amplitude________________________
         number of shocks per axis_________________________ maximum output________________________
      2. Navy high impact required? (if yes, to what level?) __________________________________________________________________________
   D. Sustained acceleration:   magnitude ___________________________  direction ___________________________
      Superimposed with vibration?      Yes      No
   E. Vibration fragility envelope (maximum G vs. frequency preferred) or desired natural frequency and maximum transmissibility ___________
   F. Maximum dynamic coupling angle ___________________________________________________________________________________________
      matched mount required?      Yes      No
   G. Desired returnability ___________________________
      Describe test procedure ____________________________________________________________________________________________________

III. ENVIRONMENTAL DATA
   A. Temperature: Operating ___________________________________ Non-operating ________________________________________________
   B. Salt spray per MIL __________________________       Humidity per MIL  _________________________________________________________
      Sand and dust per MIL ___________________________ Fungus resistance per MIL________________________
      Oil and/or gas ___________________________ Fuels __________________________
   C. Special finishes on components ___________________________________________________________________________________________
ENGINEERING DATA FOR VIBRATION AND SHOCK ISOLATOR QUESTIONNAIRE (CONT’D)

Sketch equipment outline and dimensions. Show preferred mount location and C.G. position. Attach available drawings showing interface details between mountings and equipment and support structure. Provide outline of preferred sway space available.