

MEMORY PROTECTION DEVICES, INC.

an ISO 9001:2000 company

Engineers and designers of products should review all the basic requirements like:

- Stationary or portable - indoor or outdoor use?
- Possibility of shock, vibration, and extreme temperatures?
- Storage conditions and expected shelf life?

Design considerations

1. Features
 - a. Type and quantity of batteries
 - b. Style of connection (e.g. through hole, surface mounts, wire leads)
 - c. Polarization
 - d. Cover
 - e. Style of contact (e.g. spring, blade, bump)
 - f. Case markings
 - g. Packaging
2. Performance
 - a. Retention strength
 - b. Insertion force
 - c. Removal technique and force
 - d. Contact insertion force
 - e. Contact removal force
 - f. Security of contact (how much wiggling should there be?)
 - g. Cover retention
 - h. Cover life
 - i. Lifetime of holder
 - j. Expected number of insertions and removals
3. Environment
 - a. Operating environment (e.g. temperature, moisture, vibration)
 - b. Manufacturing environment (e.g. surface mount oven)
 - c. Housing material
 - d. Contact material
 - e. Organics
4. Regulations
 - a. UL
 - b. CE
 - c. RoHS
 - d. FDA
5. Manufacturability
 - a. Draft (general and action-specific)
 - b. Wall thickness (even)
 - c. Snaps
 - d. Bosses
 - e. Texture
 - f. Weld line locations
 - g. Sink marks
 - h. Feature intersections (e.g. ribs)



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