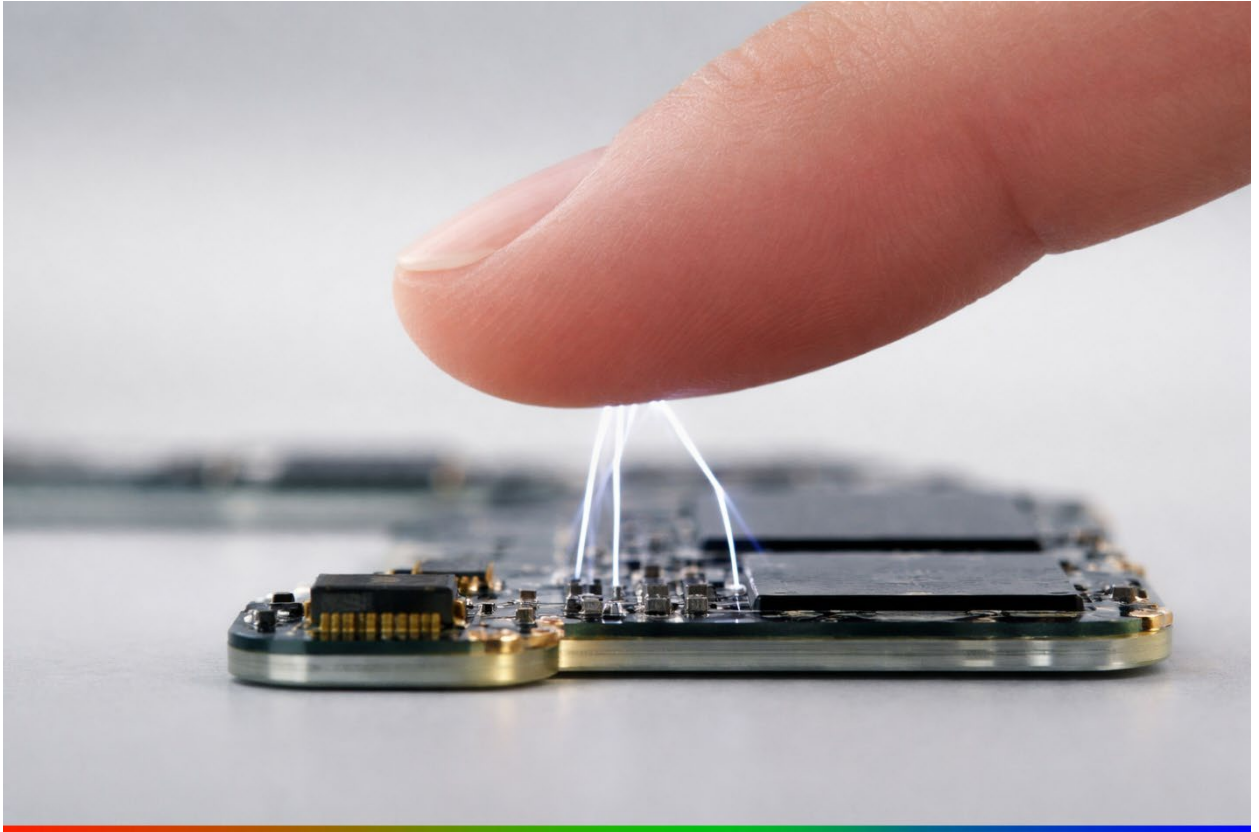




ESD in displays

Introduction

Electrostatic discharges (ESD) are one of the most common causes of damage to displays. Even low voltages can affect the sensitive electronics. This document briefly summarises the key risks and protective measures.

Typical problems and causes

- Destruction or damage to semiconductor components
- Pixel faults or failures of the TFT backplane due to ESD events
- Sources of error: un-earthed workstations, incorrect handling, operators without ESD protection



Solutions and recommendations

- Workstations: earthed mats, wrist straps, ESD-compliant tools
- Handling & storage: only in conductive or shielded trays or bags
- Personnel: ESD shoes, lab coats, regular training and periodic review of protective measures
- Environment: humidity 40–60%, use ionisers where necessary

Conclusion

Simple, standardised measures can significantly reduce the risk of ESD damage. Consistent implementation safeguards quality and extends the service life of displays.

