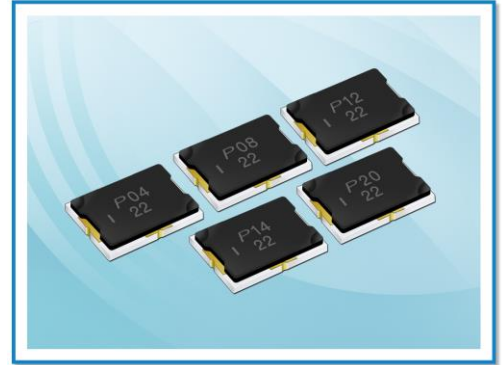


CLM1612 22A F -AS Series Device

Description

Current Limiting Module (CLM) is a chip type surface mountable device that can protect against both overcurrent and overcharging. It comprises a fuse element to ensure stable operation under normal electrical current and to cut off the current when overcurrent occurs. It also comprises a resistive heating element that could be used in combination with a voltage detecting means, such as IC and FET. When overvoltage is detected, the heating element is electrically excited to generate heat to blow the fuse element to achieve overvoltage protection.







Features

- Halogen-free
- Surface mountable
- Overcharging protection
- Fast response time
- Overcurrent protection



Application

- Notebook
- Tablet PC
- Cell phone
- Automotive applications
- Camera
- Printer
- Ultrabook
- Security systems

Agency Approval and Environmental Compliance

| Agency | File Number | Regulation | Standard |
|---|-------------|---|---------------------|
|  | E331807 |  | IEC 61249-2-21:2003 |
|  | TA 50428400 |  | 2011/65/EU |

Electrical Specifications

| Part Number | I _{rated} (A) | Cells in series | V _{max} (V _{DC}) | I _{break} (A) | V _{OP} (V) | Resistance | | Agency Approval | |
|------------------|------------------------|-----------------|-------------------------------------|------------------------|---------------------|-------------------------|------------------------|---|---|
| | | | | | | R _{heater} (Ω) | R _{fuse} (mΩ) |  |  |
| CLM1612P0422F-AS | 22 | 1 | 36 | 50 | 3.5 ~ 4.7 | 0.55 ~ 1.30 | 0.5 ~ 2.5 | ✓ | ✓ |
| CLM1612P0822F-AS | 22 | 2 | 36 | 50 | 6.0 ~ 9.2 | 2.10 ~ 3.80 | 0.5 ~ 2.5 | ✓ | ✓ |
| CLM1612P1222F-AS | 22 | 3 | 36 | 50 | 9.0 ~ 13.8 | 4.80 ~ 8.60 | 0.5 ~ 2.5 | ✓ | ✓ |
| CLM1612P1422F-AS | 22 | 4 | 36 | 50 | 12.0 ~ 18.5 | 8.60 ~ 15.20 | 0.5 ~ 2.5 | ✓ | ✓ |
| CLM1612P2022F-AS | 22 | 5 | 36 | 50 | 15.9 ~ 23.1 | 13.50 ~ 26.70 | 0.5 ~ 2.5 | ✓ | ✓ |