

## CLM1612 15A 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		

RoHS Directive: Compliance (This product complies with RoHS exemption requirements, since the high melting temperature solder and electronic ceramic parts include Lead.)

### Electrical Specifications

Part Number	I <sub>rated</sub> (A)	Cells in series	V <sub>max</sub> (V <sub>dc</sub> )	I <sub>break</sub> (A)	V <sub>OP</sub> (V)	Resistance		Agency Approval	
						R <sub>heater</sub> (Ω)	R <sub>fuse</sub> (mΩ)		
CLM1612P0415	15	1	36	50	3.0 ~ 4.5	0.6 ~ 1.5	1.0 ~ 3.0	✓	✓
CLM1612P0815	15	2	36	50	5.0 ~ 9.0	2.2 ~ 3.3	1.0 ~ 3.0	✓	✓
CLM1612P1215	15	3	36	50	7.4 ~ 13.8	5.5 ~ 8.4	1.0 ~ 3.0	✓	✓
CLM1612P1415	15	4	36	50	10.5 ~ 19.6	10.4 ~ 15.8	1.0 ~ 3.0	✓	✓
CLM1612P2015	15	5	36	50	14.4 ~ 23.5	17.9 ~ 29.1	1.0 ~ 3.0	✓	✓