Innovation to Power Your Vision

News Letter

AEM COMPONENTS

AEM CM5040G Series High Current SMD Fuse

The AEM CM5040G series high-current SMD fuses are engineered for circuits exposed to high fault currents, **featuring a solder-free ceramic body construction.** Fully RoHS-compliant, they support lead-free reflow soldering processes to meet modern manufacturing requirements.

With an operating temperature range from -55°C to 125°C, the CM5040G series effectively safeguards high-power battery systems against damages caused by excessive fault current. Common applications include power factor correction (PFC) circuits in high-power power supplies, as well as blade servers, standard servers and routers for computing and network infrastructure systems.



Features:

- Ceramic body with silicone base filler
- Tin plated copper fuse link and terminal
- Surface mount type and big size
- Halogen free, RoHS compliant and 100% lead-free
- Operating temperature range: -55℃ to +125℃ (with de-rating)

Applications:

- High-power Battery Systems
- Blade Servers
- Router & Switch
- PFC Application（Power Factor Correction）
- Data center
- PDU (Power Distribution Unit）
- Battery Management System

Electrical Specification:

AEM Part Number	Current Rating (A)	Voltage Rating (VDC)	Interrupting Rating	Nominal Cold DCR (mΩ)[1]	DCR min. (mΩ)	DCR max. (mΩ)	Nominal I^2t $(A^2s)^2$	Marking[3]
CM5040G50A0T	50	125	1000A@125VDC 1500A@75VDC	1.04	0.83	1.25	1250	CMG 50 A 125 V
CM5040G60A0T	60	125	1000A@125VDC 1500A@75VDC	0.82	0.66	0.98	2350	CMG 60 A 125 V
CM5040G70A0T	70	125	1000A@125VDC 1500A@75VDC	0.73	0.58	0.88	3200	CMG 70 A 125 V
CM5040G80A0T	80	125	1000A@125VDC 1500A@75VDC	0.58	0.46	0.70	4600	CMG 80 A 125 V
CM5040G90A0T	90	125	1000A@125VDC 1500A@75VDC	0.54	0.43	0.65	5750	CMG 90 A 125 V
CM5040G100AT	100	125	1000A@125VDC 1500A@75VDC	0.48	0.38	0.58	7400	CMG 100 A 125 V
CM5040G125AT	125	125	1000A@125VDC 1500A@75VDC	0.43	0.34	0.52	9400	CMG 125 A 125 V
CM5040G150AT	150	100	1000A@100VDC 1500A@75VDC	0.33	0.26	0.40	18000	CMG 150 A 100 V
CM5040G200AT	200	100	1000A@100VDC 1500A@75VDC	0.24	0.19	0.29	40000	CMG 200A 100 V