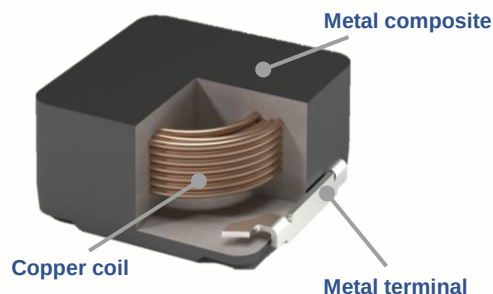


Overview

METCOM power inductors are ideal for automotive designs using DC to DC switching power supplies as well as EMI filter. Our metal composite core has high saturation characteristics ideal for applications requiring stable inductance across temperature and current. The durability has been further improved and allows for vibration resistance of up to 50 G.

Construction



Benefits

- Metal composite powder
- Shielded construction, SMD configuration
- 50 G vibration resistance
- Inductance range from 0.47 – 47.0 μH
- Operating temperature up to +155°C
- Low acoustic noise
- Low magnetic flux leakage
- AEC-Q200 qualified

Electrical Characteristics

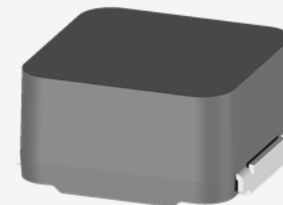
- Vibration Resistance: 50 G
- Rated inductance range: 0.47 to 47 μH at 100 kHz ($\pm 20\%$ tol.)
- Rated DCR: 1.9 to 135.2 m Ω maximum
- Rated current range: 3.6 to 30.9 A (T = 40 K rise at rated current)
- Operating temperature: -55°C to +155°C

AEC-Q200

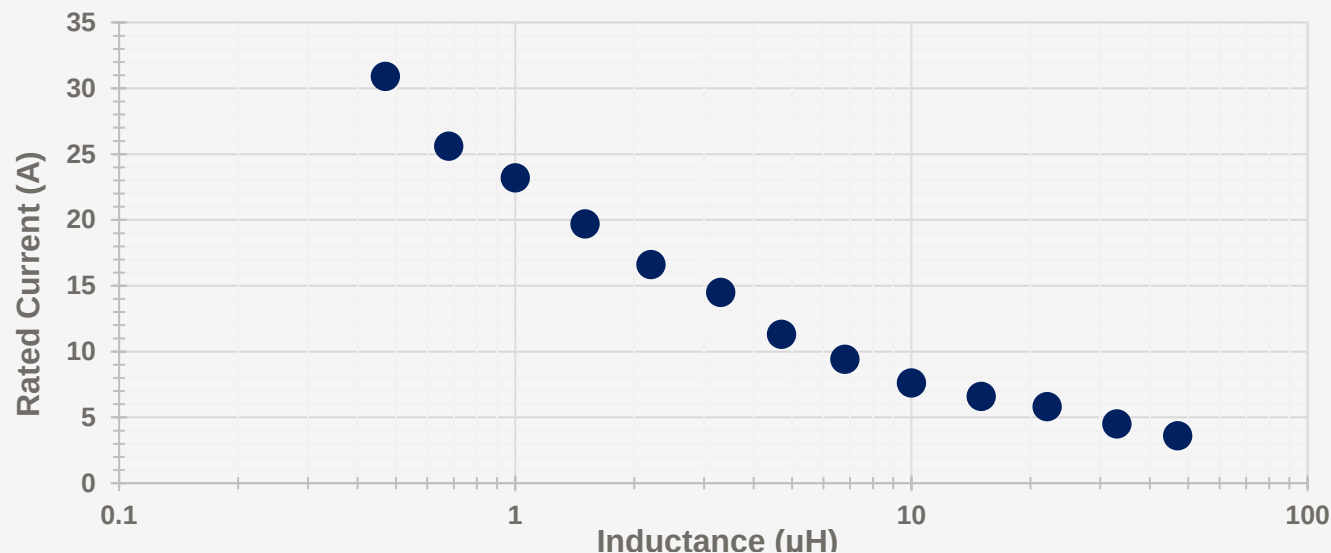


PPAP Capable

D1054



Selection Guide



10x10 mm | (Height)

● D1054 | 5.4 mm

Applications

- Engine control units (ECU)
- LED headlights
- Meter cluster panels
- Head-up displays (HUD)
- Electric water pumps (EWP)
- Electric oil pumps (EOP)
- Electric power steering (EPS)

