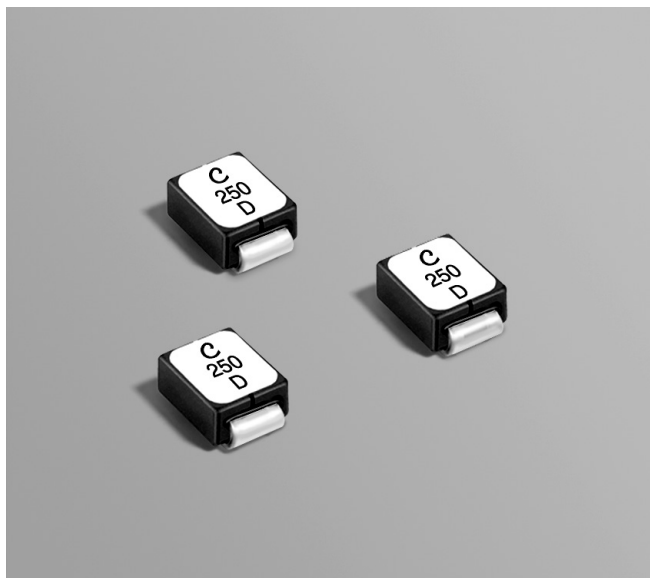




# Shielded Power Inductor – FA2769-AL



The FA2769-AL was developed for Enpirion for use in the second stage LC filter for the output of their 6A DC-DC power modules EN5360D, EN5365Q and EN5366Q, and for their 3A DC-DC power modules EN5330D, EN5335Q, and EN5336Q.

This part is designed for applications requiring high current handling capabilities and low DC resistance. Its compact size makes it an excellent choice for use in notebook computers, mobile phones, and other handheld products.

For free evaluation samples, contact Coilcraft or order them on-line at [www.coilcraft.com](http://www.coilcraft.com).

Part number <sup>1</sup>	Inductance <sup>2</sup> ±30% (nH)	DCR max <sup>3</sup> (mOhms)	SRF typ <sup>4</sup> (MHz)	Isat <sup>5</sup> (A)	Irms <sup>6</sup> (A)
FA2769-AL_	26.0	0.23	210	29	6.5

1. When ordering, please specify **packaging** code:

**FA2769-ALC**

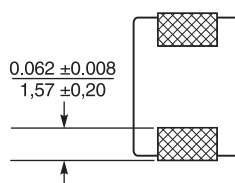
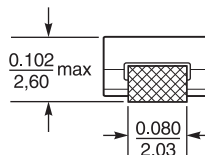
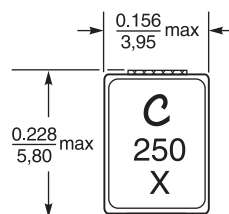
- Packaging:** **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (750 per full reel).  
**B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.  
**D** = 13" machine-ready reel. EIA-481 embossed plastic tape (3000 per full reel). Factory order only, not stocked.

2. Inductance tested at 500 kHz, 0.1 Vrms using an Agilent/HP 4284.  
 3. DCR is measured on a micro-ohmmeter at points indicated.



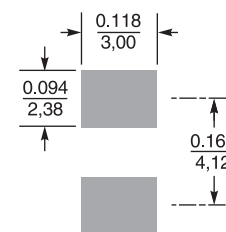
4. SRF measured using an Agilent/HP 8753ES network analyzer or equivalent.  
 5. DC current at which the inductance drops 20% (typ) from its value without current.  
 6. Current that causes a 40°C temperature rise from 25°C ambient.  
 7. **Ambient temperature range:** -40°C to +85°C with Irms current  
 8. **Storage temperature range:** Component: -40°C to +125°C  
 Packaging: -40°C to +80°C  
 9. **Maximum part temperature:** +125°C (ambient + temp rise)  
 10. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$

**Weight:** 0.19 g  
**Terminations:** Matte-tin over nickel over copper  
**Tape and reel:** 750/7" reel, 3000/13" reel 16 mm tape width

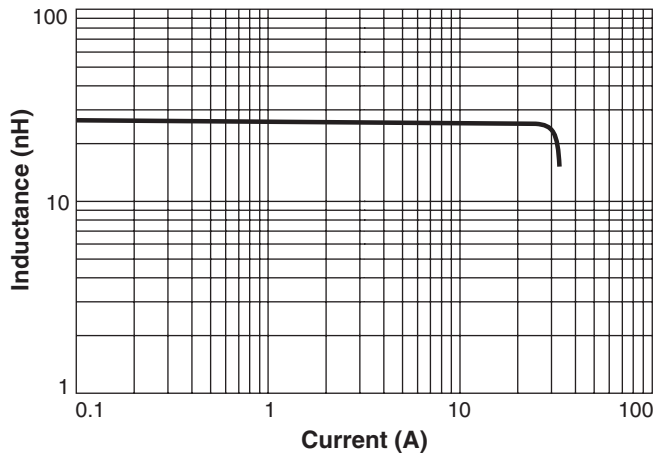


**Recommended Land Pattern**

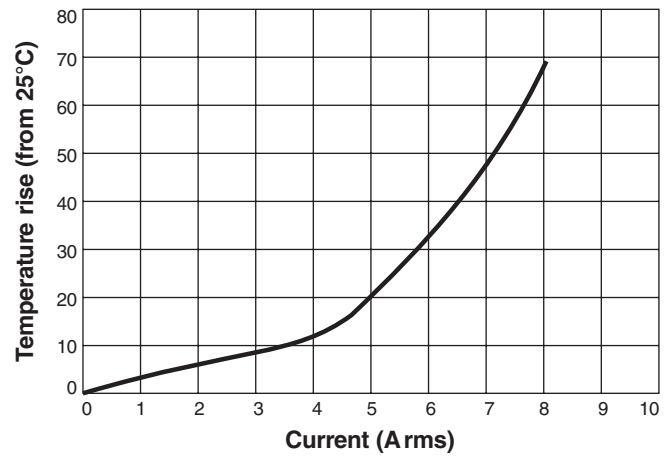


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## L vs Current



## Temperature Rise vs Current



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