



# Mid-Span PoE Plus Magnetics

For 2-Line Systems

This device contains two injector coils designed for 30 Watt PoE applications. Return loss exceeds the requirements of 802.3at specification for the entire frequency range. It maintains OCL of 350  $\mu\text{H}$  up to 20 mA at +85°C ambient.

Request free evaluation samples by contacting Coilcraft or visiting [www.coilcraft.com](http://www.coilcraft.com).

Part number <sup>1</sup>	Inductance min <sup>2</sup> ( $\mu\text{H}$ )	Leakage inductance <sup>3</sup> max ( $\mu\text{H}$ )	DCR <sup>4</sup> (Ohms)
FA2536-AL_	675.0	0.55	0.240

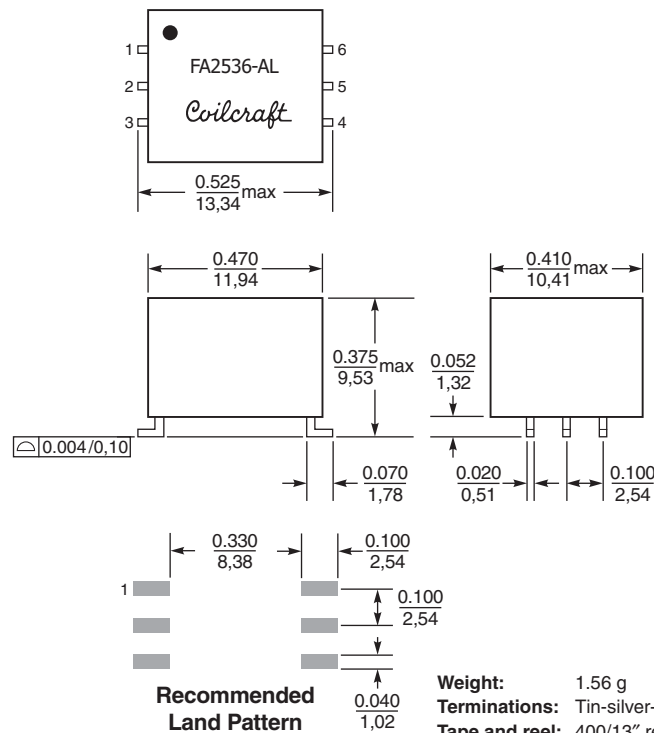
1. When ordering, please specify **packaging** code:

**FA2536-ALD**

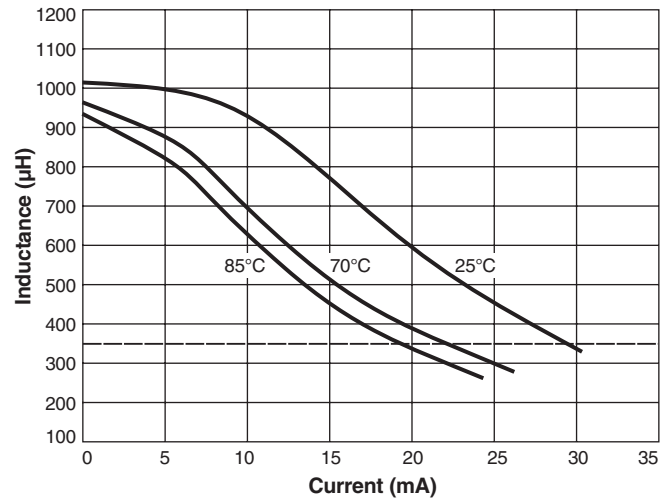
**Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (400 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

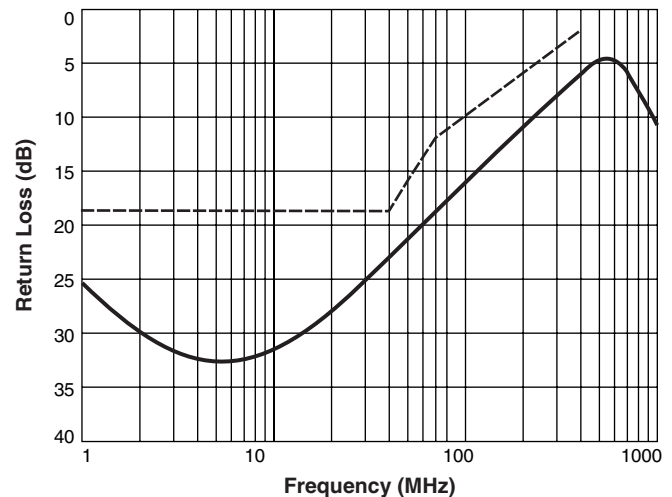
- Inductance measured between pins 1 – 3 and between pins 4 – 6 at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284A impedance analyzer.
- Leakage inductance is measured between pins 2 and 3 with pins 1 and 3 shorted and between pins 5 and 6 with pins 4 and 6 shorted.
- DCR is measured between pins 1 – 3 and between pins 4 – 6.
- Operating temperature range –40°C to +85°C.
- Electrical specifications at 25°C.



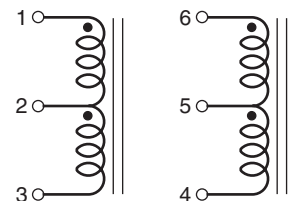
## Inductance vs Current



## Return Loss



802.3at specification:  
 18 dB min from 1 MHz to 40 MHz  
 16 dB min at 50 MHz  
 12 dB min at 80 MHz  
 10 dB min at 100 MHz



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