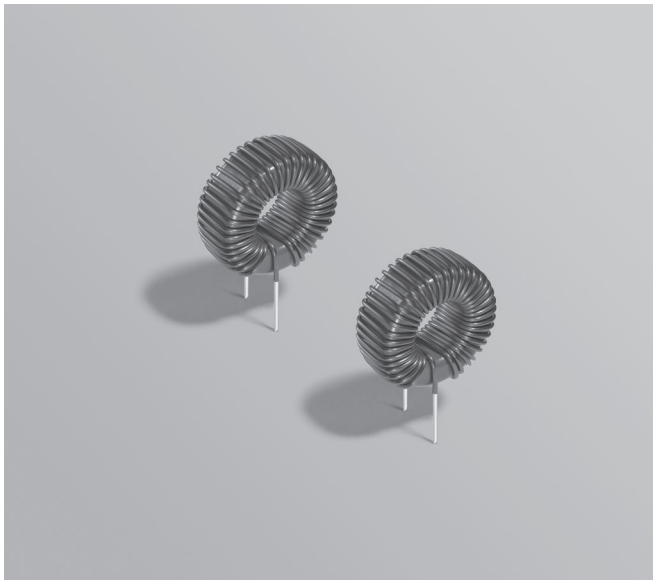
Power Filter Inductor

For Zetex ZXCD1210 Analog Input Class D Modulator

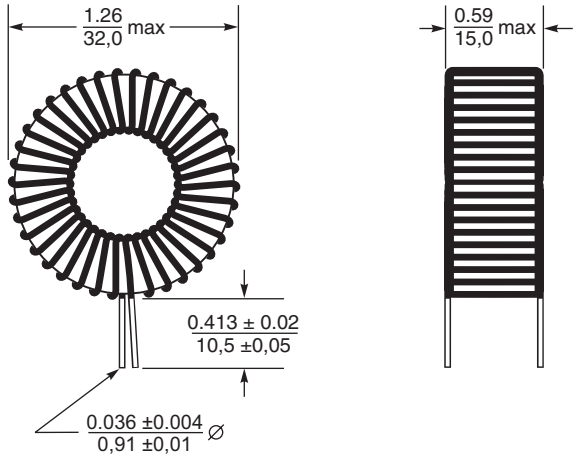


This toroidal choke was developed for Zetex Semiconductors ZXCD1210 High performance analog input Class D modulator. This application provides up to 500 Wrms into 4 Ohms. The ED0006-AL is the low pass filter for the high frequency switching PWM signal, enabling recovery of the lower frequency audio signal.

Request free evaluation samples by contacting Coilcraft or visiting **www.coilcraft.com.**

Part number	Inductance ±20%[1] (µH)	DCR max[2] (mOhms)	SRF min (MHz)	Isat[3] (A)	Irms (A)[4] 20°C rise	Irms (A)[4] 40°C rise
ED0006-AL	20	42	13	36.0	5.1	7.2

1. Inductance measured at 100 kHz, 100 mVrms, 0 Adc using an Agilent/ HP 4132 impedance analyzer or equivalent.
2. DCR measured on a Valhalla 4105 ATC digital ohmmeter or equivalent.
3. DC current at which the inductance drops 10% (typ) from its value without current.
4. Current that causes the specified temperature rise from 25°C ambient.
5. **Ambient temperature range:** –40°C to +125°C with Irms current +125°C to +165°C with derated current
6. **Storage temperature range:** Component: –40°C to +165°C Packaging: –40°C to +80°C.
7. Electrical specifications at 25°C.



Weight: 30.8 g
Terminations: Tin-silver-copper over copper
Packaging: 25 per tray

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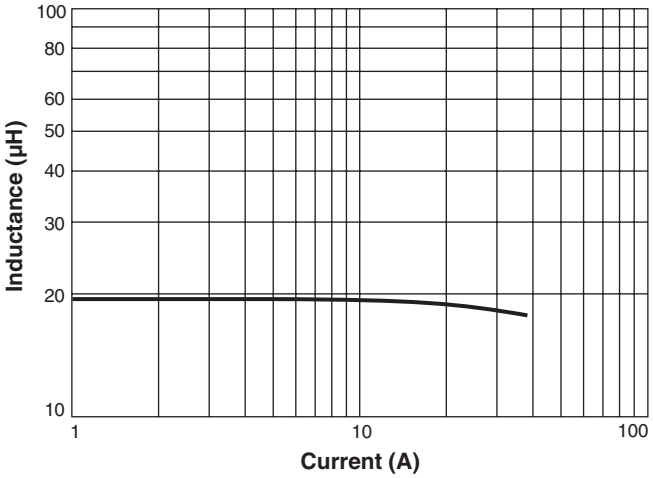
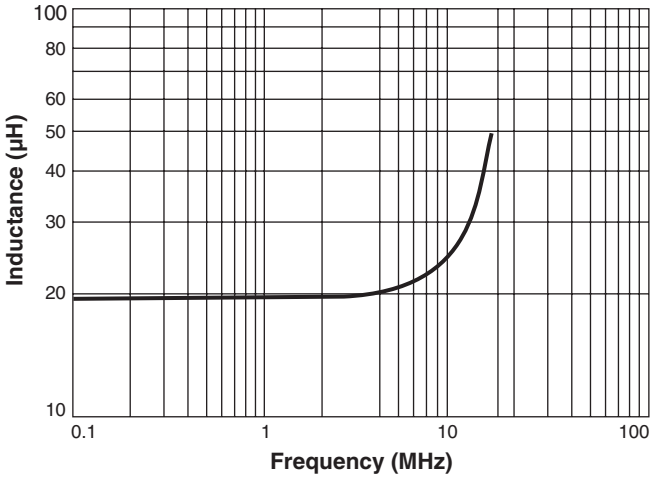
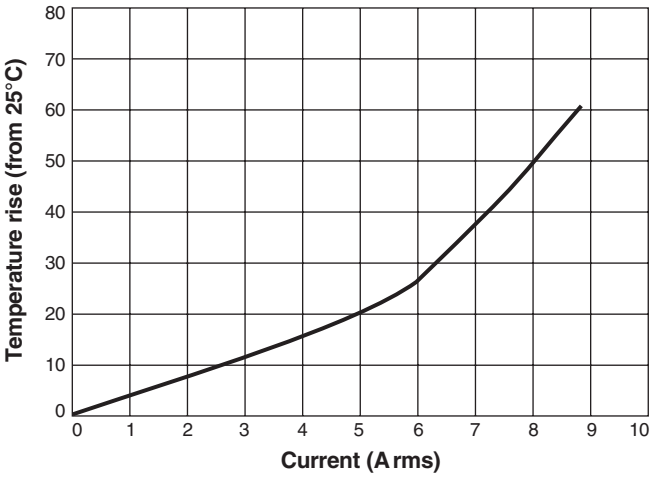
Power Filter Inductor – ED0006-AL

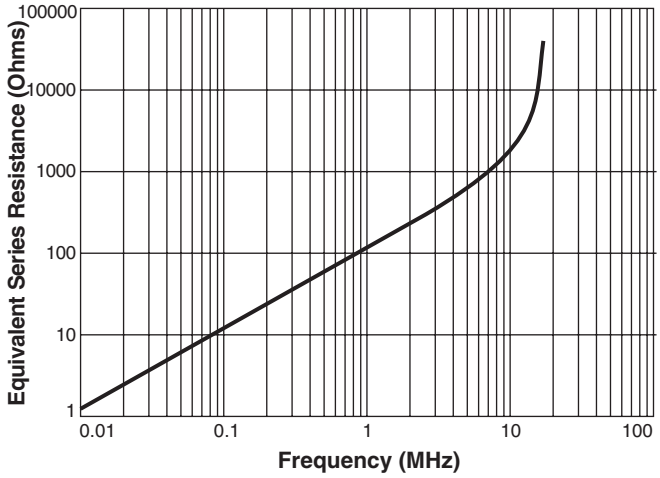
L vs Current L vs Frequency



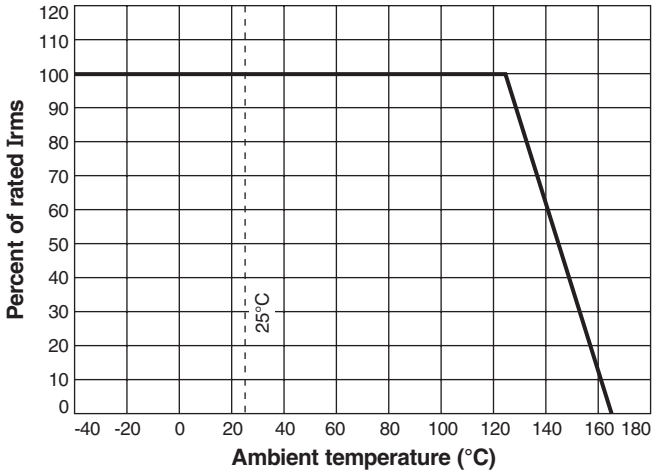


Temperature Rise vs Current ESR vs Frequency





Irms Derating



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