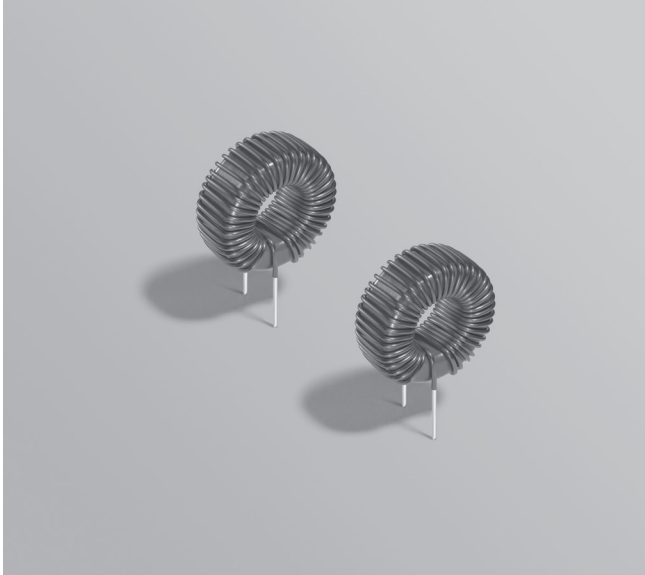


Power Filter Inductor

For Zetex ZXCD1210
Analog Input Class D Modulator

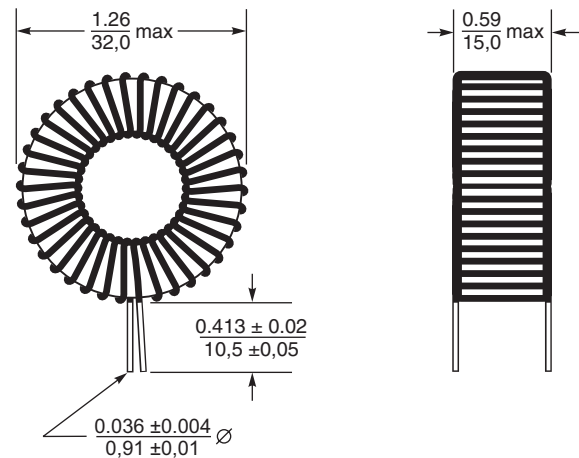


This toroidal choke was developed for Zetex Semiconductors ZXCD1210 High performance analog input Class D modulator. This application provides up to 500 Wrms into 4 Ohms. The ED0006-AL is the low pass filter for the high frequency switching PWM signal, enabling recovery of the lower frequency audio signal.

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

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

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

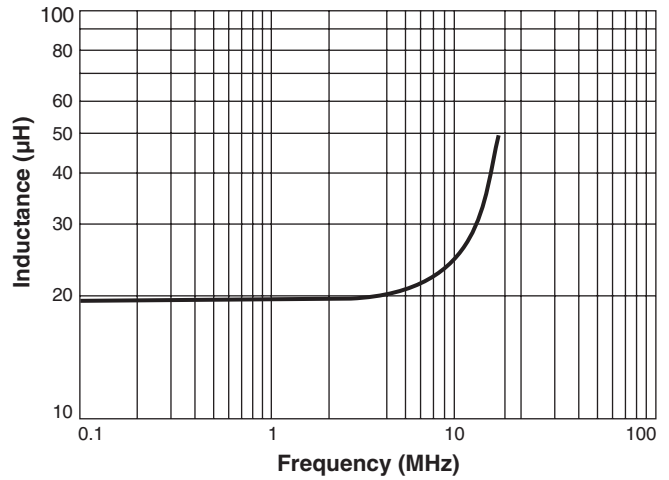
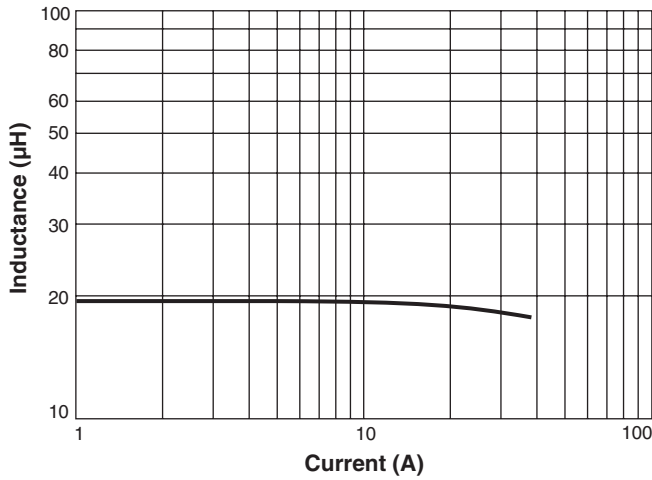


Weight: 30.8 g
Terminations: Tin-silver-copper over copper
Packaging: 25 per tray

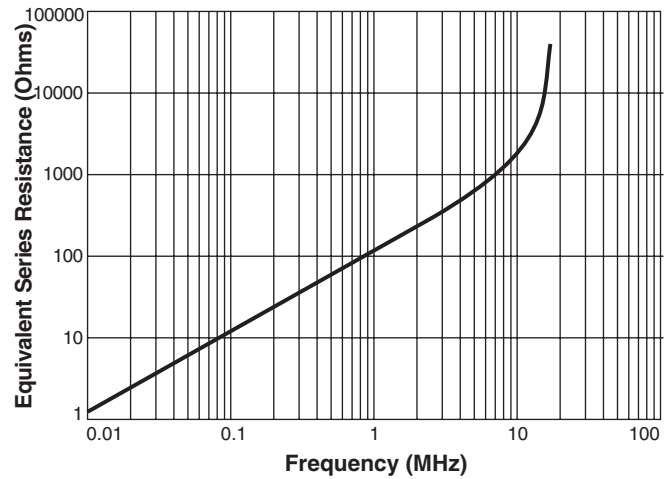
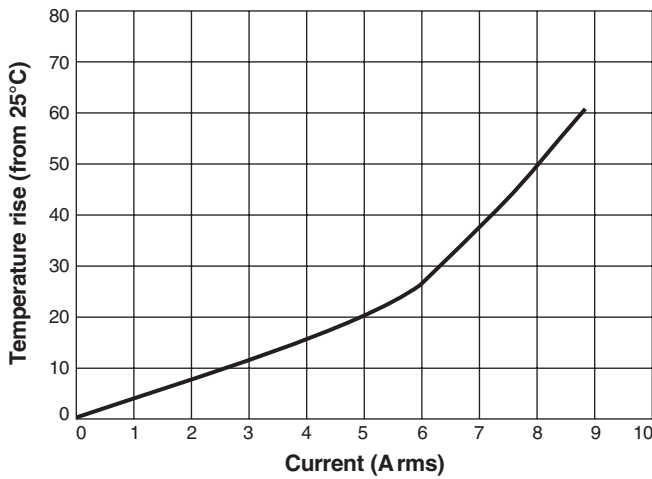


Power Filter Inductor – ED0006-AL

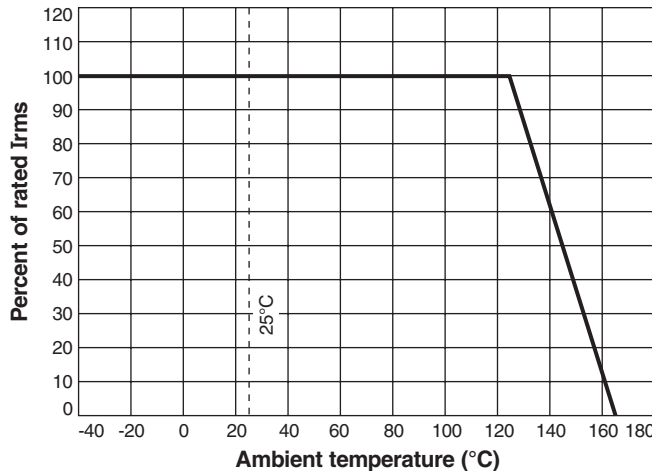
L vs Current L vs Frequency



Temperature Rise vs Current ESR vs Frequency



Irms Derating



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