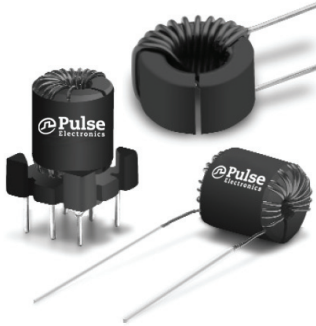


THT Power Inductors

For Class D and Digital Amplifier Applications



- Low cost, using gapped toroid technology
- Designed to match Zetex IC ZXCD1000 (PG0035, PG0036 and PG0058) and ZXCW8100 (PG0058)
- Robust with high performance

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Inductance @ Irated (μH TYP)	I _{rated} ² (A)	DCR (mΩ)		Inductance @ 0A _{DC} (μH ±10%)	Saturation Current I _{SAT} ³ (A)			Heating Current I _{bc} ⁴ (A)
			TYP	MAX		@ -40°C	@ 25°C	@ 120°C	
PG0035NL (with base)	19.5	3	66	93	20	7.0	6.0	4.0	3
PG0036NL	19.5	3	74	93	20	7.0	6.0	4.0	3
PG0058NL	19.5	8	8.6	12	20	8.5	8.0	7.0	11

Mechanicals

PG0035NL

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

PG0058NL

	PG0035	PG0036	PG0058
Weight	2.7 grams	2.3 grams	11.3 grams
Tray	100/tray	65/tray	60/tray

Schematic

SUGGESTED PCB LAYOUT

PG0036NL

SUGGESTED PCB LAYOUT

Schematic

PG0035NL / PG0036NL / PG0058NL

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

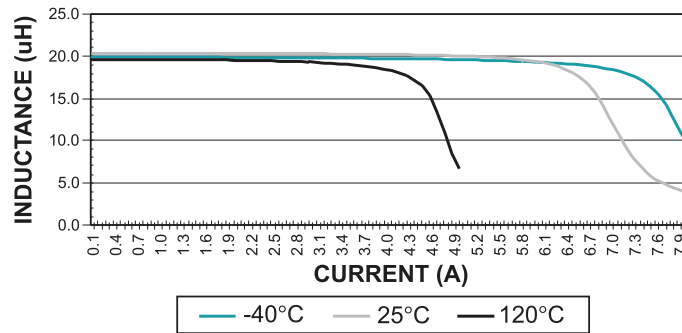
THT Power Inductors

For Class D and Digital Amplifier Applications

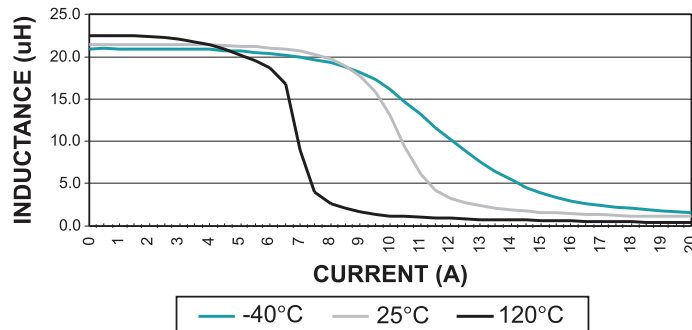
Notes from Tables

- Inductance at I_{rated} is a typical inductance value measured when the inductor is subjected to the rated current.
- The rated current listed is the lower of the saturation current @ 25°C or the heating current.
- The saturation current, I_{sat} , is the current at which the component inductance drops by 10% at the stated ambient temperatures (-40°C, 25°C, 120°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
- The heating current, I_{hc} , is the DC current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.
- PG0035NL** and **PG0036NL** is used for the 25W-50W version of ZXCD1000 chipset while **PG0058NL** is used for the 100W version of ZXCD1000 and for the new digital audio amplifier chipset ZXCW8100.
* Contact Pulse for availability

PG0035/36 TYPICAL INDUCTANCE VS. DC BIAS At Different Ambient Temperature



PG0058 TYPICAL INDUCTANCE VS. DC BIAS At Different Ambient Temperature



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