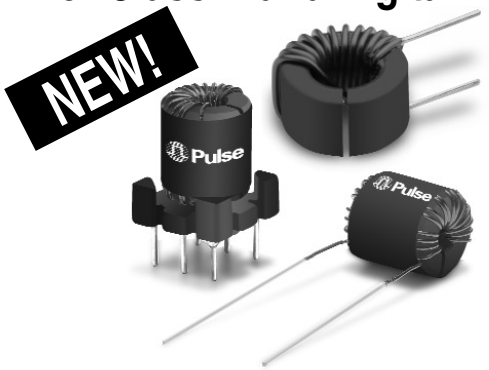
THT POWER INDUCTORS
For Class D and Digital Amplifier Applications

Pulse
A TECHNITROL COMPANY



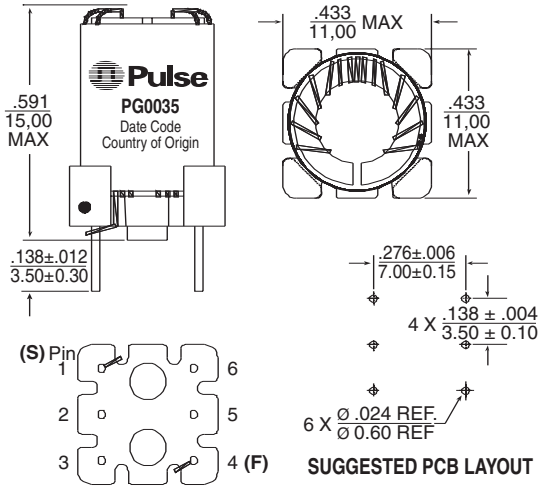
- Low cost, using gapped toroid technology
- Designed to match Zetex IC ZXCD1000 (PG0035, PG0036 and PG0058) and ZXCW8100 (PG0058)
- Robust with high performance

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

Part Number	Inductance @ Irated (µH TYP)	Irated [2] (A)	DCR (mΩ)		Inductance @ $0A_{DC}$ (µH ±10%)	Saturation Current I_{SAT} [3] (A)			Heating Current I_{DC} [4] (A)
			TYP	MAX		@ -40°C	@ 25°C	@ 120°C	
PG0035 (with base)	19.5	3	66	93	20	7.0	6.0	4.0	3
PG0036	19.5	3	74	93	20	7.0	6.0	4.0	3
PG0058	19.5	8	8.6	12	20	8.5	8.0	7.0	11

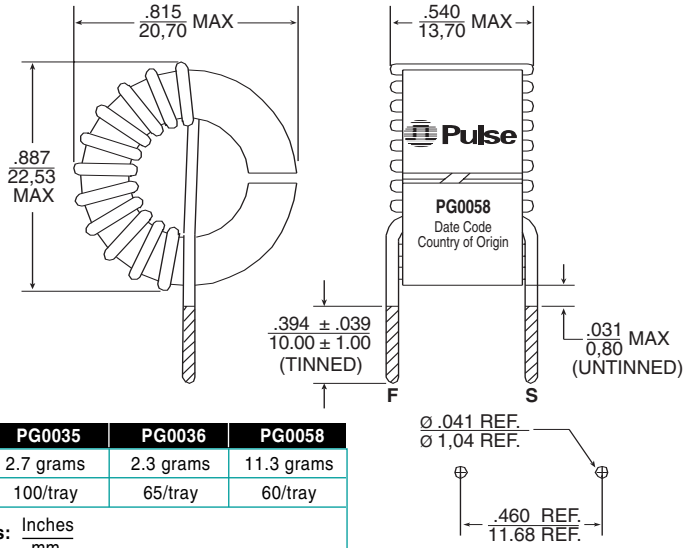
Mechanicals

PG0035



SUGGESTED PCB LAYOUT

PG0058



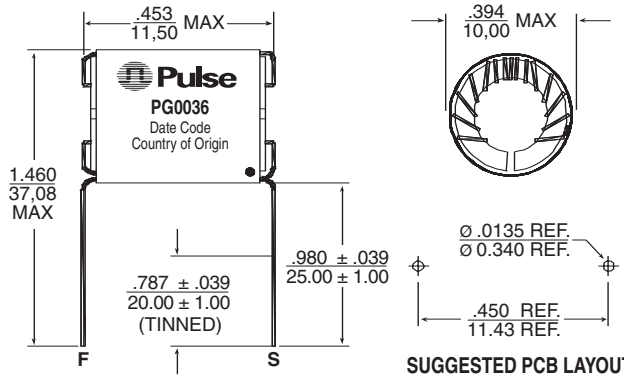
SUGGESTED PCB LAYOUT

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

Dimensions: Inches / mm

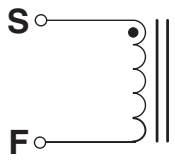
Unless otherwise specified, all tolerances are ± .010 / 0,25

PG0036



SUGGESTED PCB LAYOUT

Schematic



PG0035 / PG0036 / PG0058

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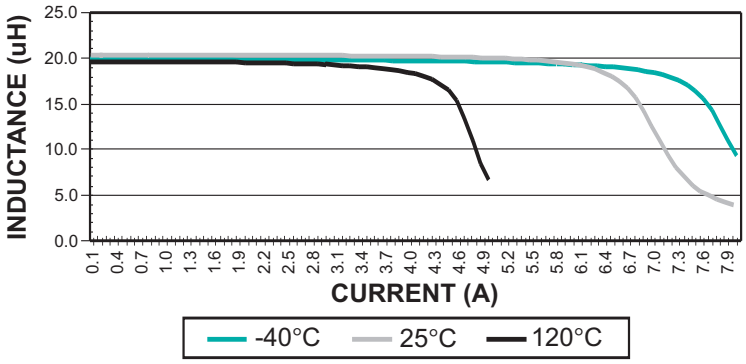
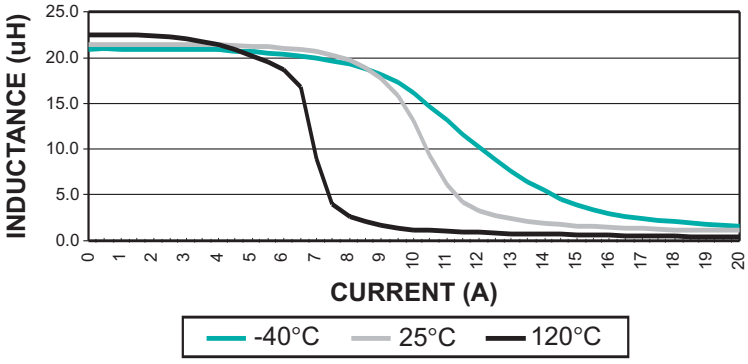
Notes from Table

1. Inductance at Irated is a typical inductance value measured when the inductor is subjected to the rated current.
2. The rated current as listed is either the saturation current @ 25°C or the heating current depending on which value is lower.
3. The saturation current Isat is the current which causes the inductance to drop 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.
4. The heating current Idc is the dc current which causes the temperature rise of the part to increase by approximately 40°C. This current is determined by mounting the component on a typical application PCB and applying the current to the device for 30 minutes.
5. **PG0035** and **PG0036** is used for the 25W~50W version of ZXCD1000 chipset while **PG0058** is used for the 100W version of ZXCD1000 and for the new digital audio amplifier chipset ZXCW8100.

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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