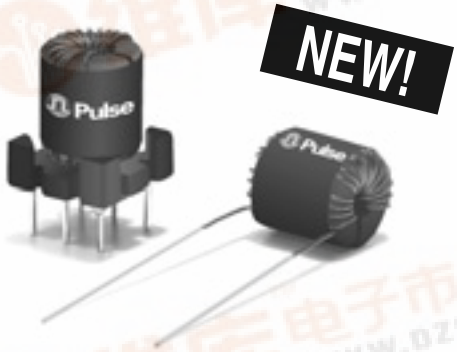
THT POWER INDUCTORS
For Class D Amplifier Applications

Pulse
A TECHNITROL COMPANY



- Low cost using gapped toroid technology
- Available in two versions: with base (PG0035) and without base (PG0036)
- Designed to match Zetex ZXCD1000 High performance Class D solution – www.zetex.com

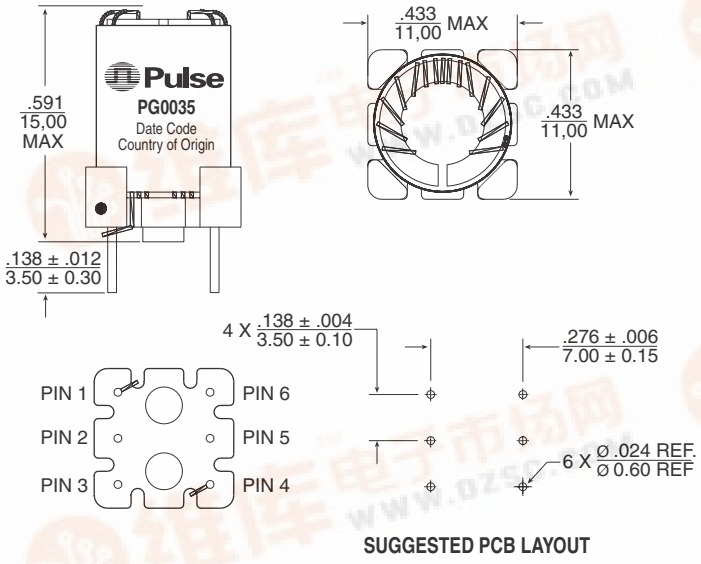
Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

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

NOTES:
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.

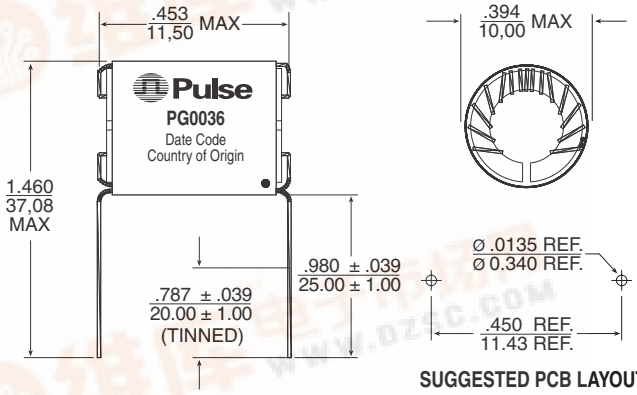
Mechanicals

PG0035



SUGGESTED PCB LAYOUT

PG0036



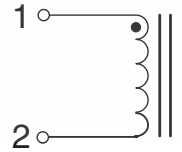
SUGGESTED PCB LAYOUT

	PG0035	PG0036
Weight	2.7 grams	2.3 grams
Tray	100/tray	65/tray

Dimensions: Inches / mm

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

Schematic



PG0035/PG0036

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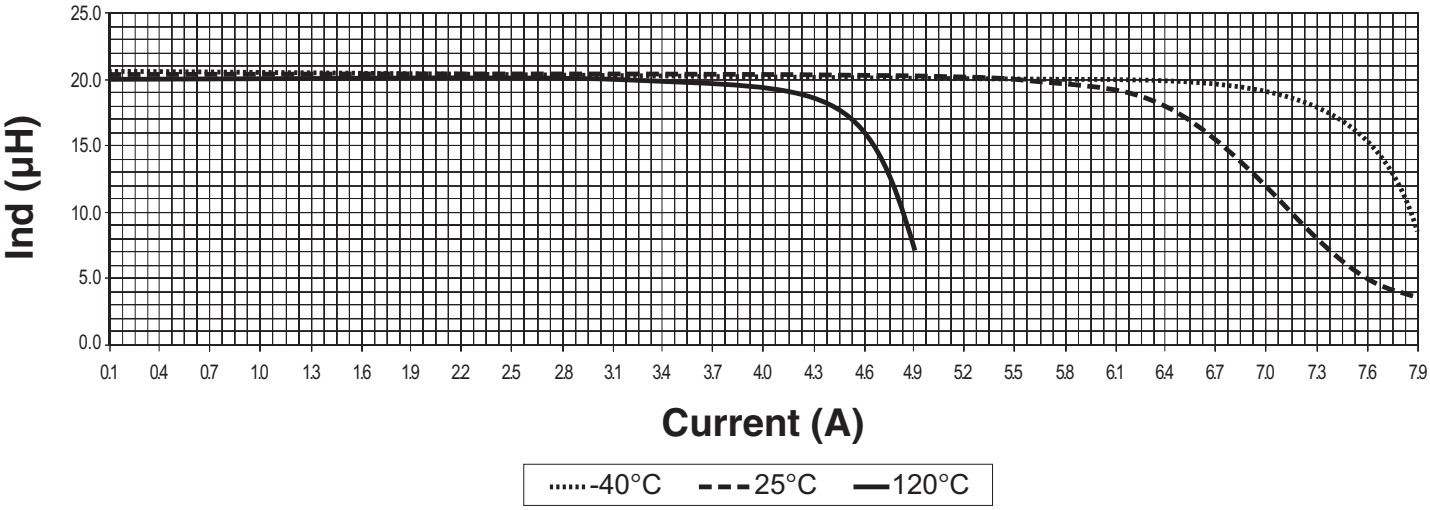
PG0035/PG0036 TYPICAL INDUCTANCE vs. DC BIAS
At Different Ambient Temperatures



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