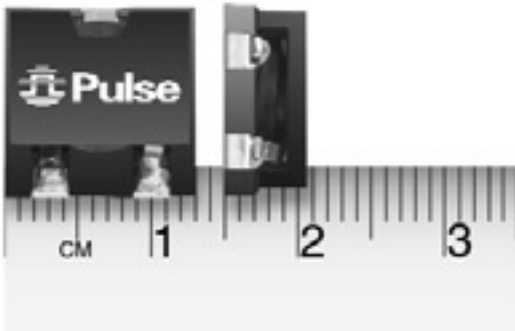


SMT POWER INDUCTORS

Flat Coil Series



-  Low profile and suitable for compact surface area mounting
-  Large permissible DC current
-  Low DC resistance
-  Robust design

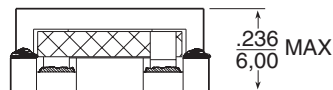
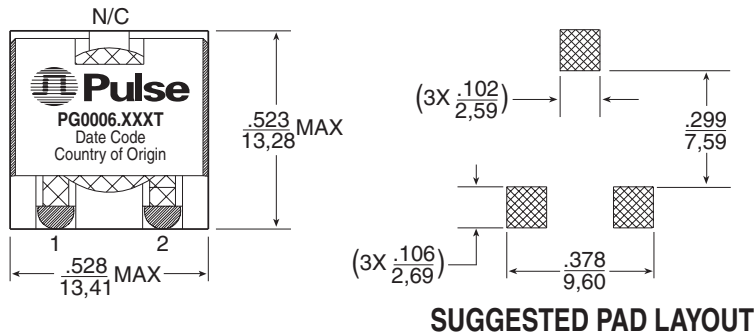
Electrical Specifications @ 25°C — Operating Temperature -40°C to 100°C

Part Number	Reference Values			Control Values	
	I_{SAT}^1 (A)	$L @ I_{SAT}, L_{SAT}^2$ (μ H)	I_{DC}^3 (A)	L w/o DC, $L_0 \pm 20\%$ (μ H)	DCR MAX (m Ω)
PG0006.102T	20	0.90	15.0	1.0	1.75
PG0006.212T	15	1.89	12.0	2.1	3.60
PG0006.312T	12	2.79	9.0	3.1	7.50
PG0006.422T	10	3.78	8.5	4.2	7.50
PG0006.462T	9	4.14	8.0	4.6	10.40
PG0006.552T	8	4.95	7.5	5.5	12.40

NOTES:

1. I_{SAT} value is the current that will make inductance drop by $\leq 10\%$.
2. L_{SAT} value is a typical inductance value, once the inductor is subjected to I_{SAT} .
3. I_{DC} is the current that will make a temperature rise (Δt) of $< 40^\circ\text{C}$.
4. All measurements are done at room temperature (25°C), 100 kHz, 250 mV.

Mechanical

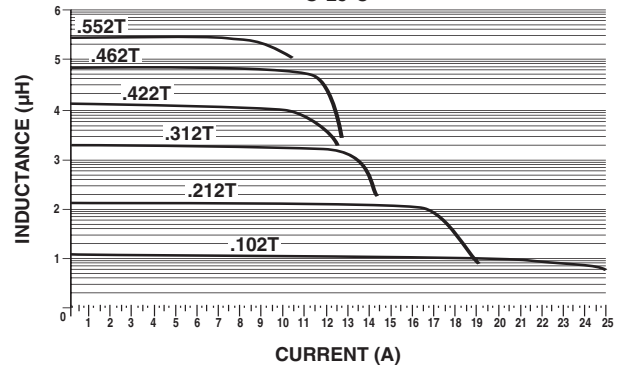


Weight 3.0 grams
Tape & Reel 340/reel

Dimensions: Inches
mm

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

TYPICAL INDUCTANCE VS. DC BIAS @ 25°C



Schematic

