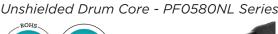
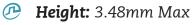
### **SMT Power Inductors**







**Footprint:** 4.7mm Typ x 4.2mm Max

Current Rating: up to 3.1A

10

12

15

18

22

27

33

39

47

56

68

1.1

1.0

0.85

0.80

0.75

0.65

0.58

0.55

0.50

0.46

0.41

1.5

1.4

1.3

1.1

1.0

0.90

0.85

0.80

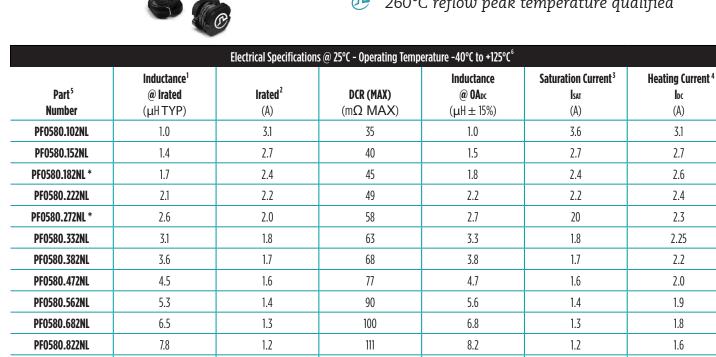
0.70

0.67

0.62

**Inductance Range:** 1μH to 65μH

260°C reflow peak temperature qualified



132

160

197

255

280

384

427

490

645

700

827

1.1

1.0

0.85

0.80

0.75

0.65

0.58

0.55

0.50

0.46

0.41

PF0580.103NL

PF0580.123NL

PF0580.153NL

PF0580.183NL\*

PF0580.223NL

PF0580.273NL\*

PF0580.333NL

PF0580.393NL

PF0580.473NL

PF0580.563NL

PF0580.683NL

9.5

11

14

17

21

26

31

37

45

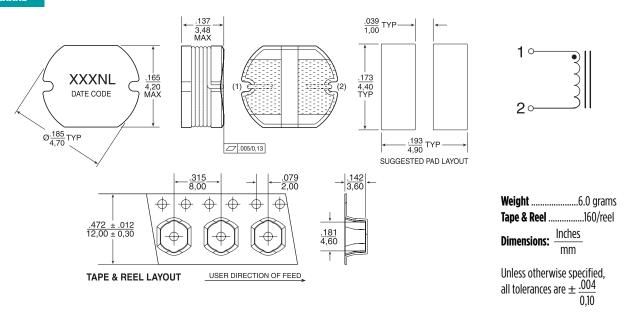
53

65



### Mechanical Schematic

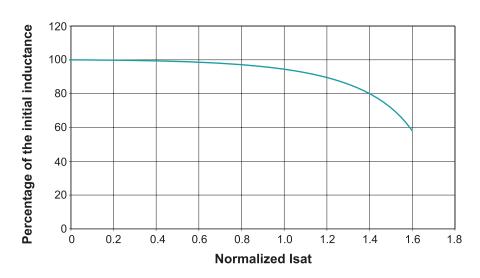
### PF0580.XXXNL



#### **Notes from Tables:**

- 1. Inductance at Irated is a typical inductance value measured when the inductor is subjected to the rated current.
- 2. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
- 3. The saturation current, Isat, is the current at which the component inductance drops by 20% (maximum) at an ambient temperature of 25°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, loc, 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.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PF0504.681NL becomes PF0504.681NLT). Pulse complies to industry standard tape and reel specification EIA481.
- 6. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

### **Typical Inductance vs Current Characteristics**



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<sup>\*</sup> Contact Pulse for availability

# **SMT Power Inductors**

Unshielded Drum Core - PF0580NL Series



For I	More I	lntorma	tıon

For More Information	n				
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