

SMT POWER INDUCTORS

Unshielded Drum Core - PB2020 Series



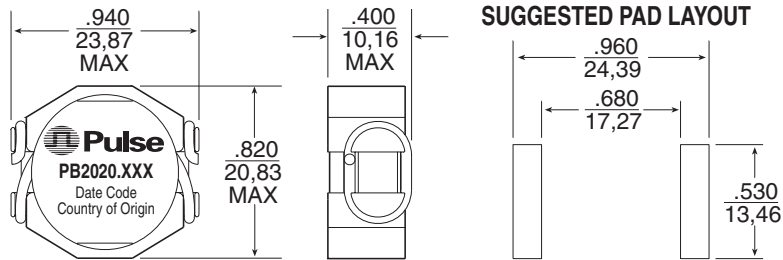
- Height:** 10.2mm Max
- Footprint:** 23.9mm x 20.8mm Max
- Current Rating:** up to 30A
- Inductance Range:** 0.65 μ H to 29 μ H

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part Number ^{6,7}	Inductance @ Irated ² (μ H MIN)	Irated ³ (A _{DC})	DCR (m Ω)		Inductance @ 0 A _{DC} (μ H \pm 15%)	Saturation Current ⁴ @ 25°C (A _{DC})	Heating Current ⁵ (A _{DC})
			(TYP)	(MAX)			
PB2020.681	0.65	30.0	1.62	1.80	0.65	70	30.0
PB2020.102	0.85	23.7	1.98	2.20	0.85	55	23.7
PB2020.222	1.83	21.8	2.34	2.60	1.83	40	21.8
PB2020.332	3.00	18.3	3.33	3.70	3.00	35	18.3
PB2020.472	4.00	16.8	3.96	4.40	4.00	28	16.8
PB2020.682	5.78	13.6	6.03	6.70	5.78	25	13.6
PB2020.103	8.30	12.6	7.02	7.80	8.30	20	12.6
PB2020.153	13.00	9.7	11.70	13.00	13.00	18	9.7
PB2020.223	18.70	8.1	17.10	19.00	18.70	13	8.1
PB2020.333	29.00	6.5	26.10	29.00	29.00	10	6.5

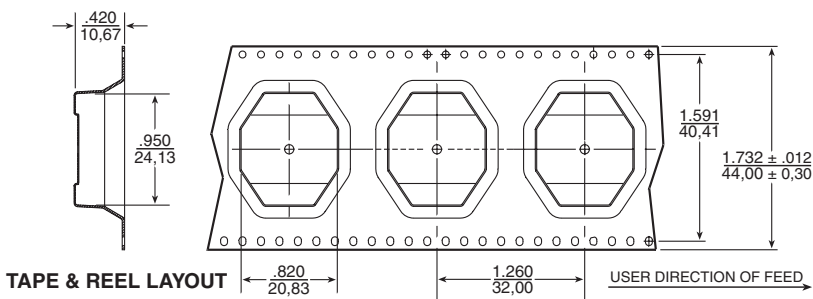
- NOTES:**
- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
 - Inductance at Irated is typical inductance value for component taken at rated current.
 - The rated current listed is the lower of saturation current @ 25°C or heating current.
 - The saturation current, Isat, is the current at which the component inductance drops by 10% (typical) 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.
 - 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.
 - Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PB2020.102 becomes PB2020.102T). Pulse complies to industry standard tape and reel specification EIA481.
 - To order RoHS compliant part, add the suffix "NL" to the part number (i.e. PB2020.102 becomes PB2020.102NL and PB2020.102T becomes PB2020.102NLT).

Mechanical



Weight 9.5 grams
Tape & Reel 100/reel
Tray 20/tray

Dimensions: Inches
mm
Unless otherwise specified, all tolerances are $\pm \begin{matrix} .010 \\ 0,25 \end{matrix}$



Schematic

