

SMT POWER INDUCTORS

PB2020 Series



NEW!

- Current range: 6.6 A to 30 A (up to 70 A saturation)
- Footprint: .94" x .82" x .40" MAX
- Typical energy storage density: 1600 $\mu\text{J}/\text{in}^3$
- Ideal for high current, low voltage DC/DC converter applications

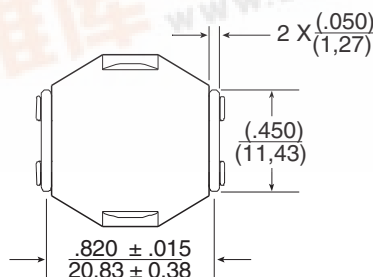
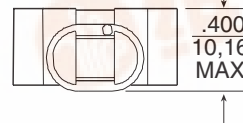
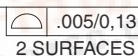
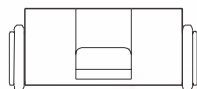
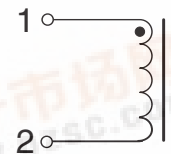
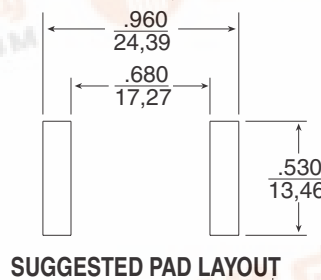
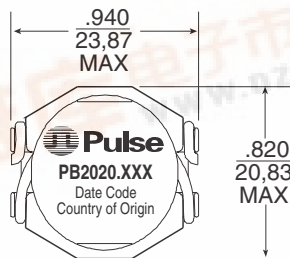
Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

Part Number	Inductance @ Irated (μH MIN)	Irated ¹ (ADC)	DCR (mΩ)		Inductance @ 0 A _{DC} (μH ±15%)	Saturation Current ² @ 25°C (ADC)	Heating ³ Current @ 40°C (ADC)
			(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

Mechanical

Schematic

PB2020.XXX



Weight9.5 grams
Tape & Reel 100/reel
Tray20/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$



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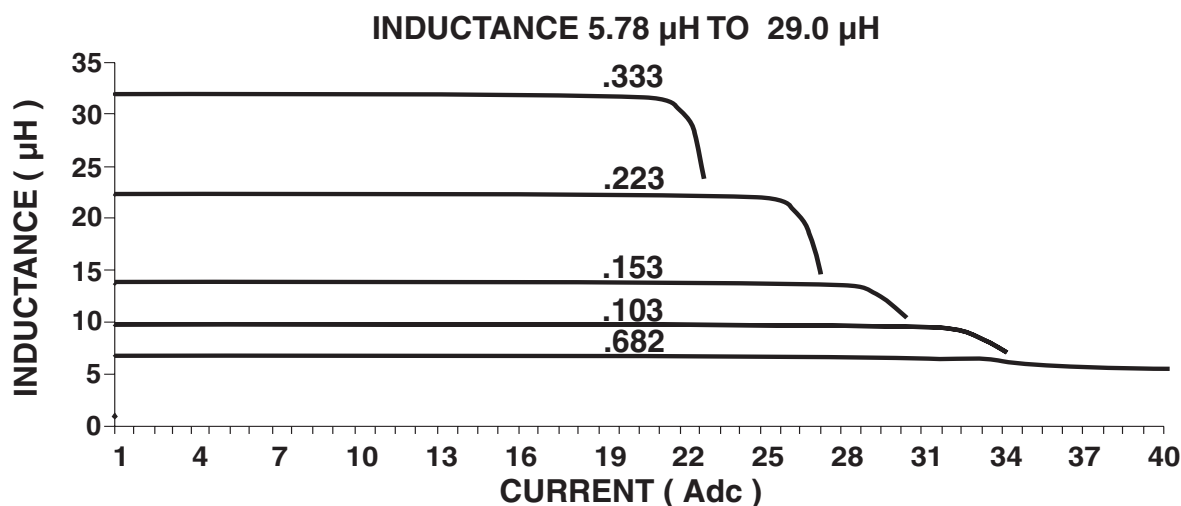
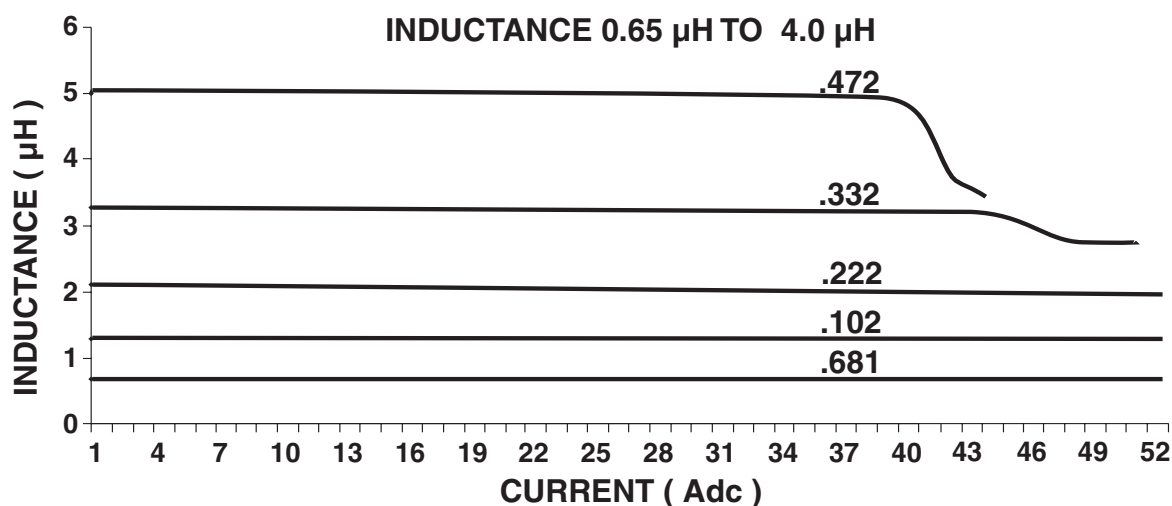
PB2020 Series



Notes from Tables

1. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
2. The saturation current is the current which causes the inductance to drop by 10% at the stated 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.
3. The heating current is the dc current which causes the temperature of the part to increase by approximately 40°C. This current is determined by mounting the component on a PCB with .25" wide, 3 oz. equivalent copper traces, and applying the current to the device for 30 minutes.

TYPICAL INDUCTANCE vs. DC BIAS



For More Information :

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