

SHIELDED SURFACE MOUNT POWER INDUCTOR

Power Beads Type

- Available in low profile and used in high power application
 - Ideal for high current devices
 - Custom inductance value or tolerance is available
 - RoHS compliant version is available



ELECTRICAL SPECIFICATION @ 25°C								
RoHS Part Number	Inductance ² (nH±20%)	Inductance@Irated (nH Typ)	Irated ³ (Adc)	DCR ¹ (mΩ)	Saturation Current ⁴ (Adc) 25°C 100°C		Heating Current ⁵ (A)	Marking
831-02987F	210	210	45	0.32±9.4%	71	64	45	2987F
831-02988F	260	260	45	0.32±9.4%	60	55	45	2988F
831-02989F	320	285	41	0.32±9.4%	50	45	45	2989F
831-02990F	440	363	30	0.32±9.4%	35	30	45	2990F
831-03130F	210	210	45	0.53±11.3%	71	64	45	3130F
831-03131F	260	260	45	0.53±11.3%	60	55	45	3131F
831-03132F	320	285	41	0.53±11.3%	50	45	45	3132F
831-03133F	440	363	30	0.53±11.3%	35	30	45	3133F

Notes:

- 1. The DCR is measured from point a to point b, as shown on the mechanical drawing.
- 2. Inductance is tested at 0.1Vrms, 1MHz.
- 3. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- 4. The saturation current, Isat, is the current at which the inductance of the component drops by 20% typical at the stated ambient temperatures (25°C and 100°C).
- 5. The heating current is the DC current required to raise the component temperature by approximately 40°C at ambient temperature of 25°C. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling.
- 6. Operating temperature range: -40°C to +130°C. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperatures should be verified in the end application.



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Notes:

7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.

 Weight (in gram)
 :
 5.5 typ.

 Tape & Reel
 :
 300 / reel

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

9. For available RoHS part number, the part will be marked with "XXXXF", instead of "XXXX".



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