

Inductors

**Surface Mount
Drum Core Power Inductors**

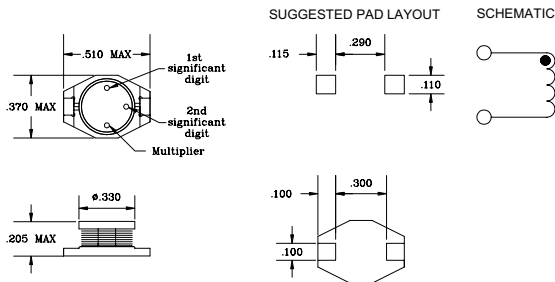
8405-XXX



- Designed for use in DC-DC converters where high energy storage combined with low DCR is a requirement
- Suitable for auto assembly and compatible with reflow process to 240°C
- Useful in battery-powered and low voltage converters
- Rugged design features with an extended operating temperature range of -40°C to +85°C



MECHANICAL AND SCHEMATIC (All dimensions in inches)



ELECTRICAL SPECIFICATIONS @ 25°C

Part Number	Inductance ($\mu\text{H} \pm 20\%$)	DCR ¹ (Ω MAX)	I_{sat}^2 (A)	I_{sat}^3 (A)
8405-10G	1.0	0.009	9.00	6.80
8405-15G	1.5	0.010	8.00	6.40
8405-22G	2.2	0.012	7.00	6.10
8405-33G	3.3	0.015	6.40	5.40
8405-47G	4.7	0.018	5.40	4.80
8405-68G	6.8	0.027	4.60	4.40
8405-100	10.0	0.038	3.80	3.90
8405-150	15.0	0.046	3.00	3.10
8405-220	22.0	0.085	2.60	2.70
8405-330	33.0	0.100	2.00	2.10
8405-470	47.0	0.140	1.60	1.80
8405-680	68.0	0.200	1.40	1.50
8405-101	100.0	0.280	1.20	1.30
8405-151	150.0	0.400	1.00	1.00
8405-221	220.0	0.610	0.80	0.80
8405-331	330.0	1.020	0.60	0.60
8405-471	470.0	1.270	0.50	0.50
8405-681	680.0	2.020	0.40	0.40
8405-102	1000.0	3.000	0.30	0.30

NOTES: 1. Tested at 100 kHz, 0.1 Vrms.
2. Inductance drop = 10% typ. At rated Isat.
3. $\Delta T = 40^\circ\text{C}$ rise typ. At Irms.

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