

6000A Series

Surface Mount Power Inductors



FEATURES

RoHS	comp	liant¹
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■ Up to 22A saturation current

■ 5.8µH to 57.8µH

■ High energy storage, low resistance

■ UL 94V-0 packaging materials

J-STD-020D.1 reflow

■ Custom inductance values available

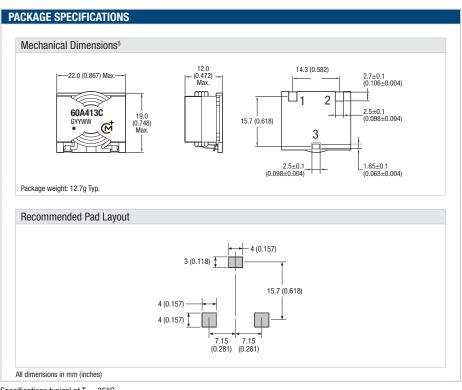
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The 6000A series is a range of high-current, surface-mount power inductors. They are designed for use in power applications such as DC-DC converters, energy storage and input or output filtering. The products are supplied in tape and reel for high-volume, automated surface-mount assembly.

SELECTION GUIDE					
	Inductance, L	Isat⁴	DC Current ²	SRF	DC Resistance
Order Code	0.1V@100KHz (±10%)	Max.	Max.	Тур.	Max.
	μH	Α	Α	MHz	mΩ
60A582C	5.8	22	14.5	31	5
60A782C	7.8	19	13.5	26	6
60A103C	10.2	17	12.0	21	7
60A163C	16.0	13	9.6	17	9
60A193C	19.4	12	8.5	15	11
60A233C	23.0	11	8.4	13	12
60A273C	27.0	10	7.5	13	15
60A313C	31.4	9.5	6.8	12	18
60A363C	36.0	8.8	6.4	11	20
60A413C	41.0	8.4	5.6	10	26
60A583C	57.8	6.2	4.9	8	36

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 150°C

SOLDERING INFORMATION ¹		
Peak reflow solder temperature	245°C	
Pin finish	Pure tin	
Moisture sensitivity level ³	1	







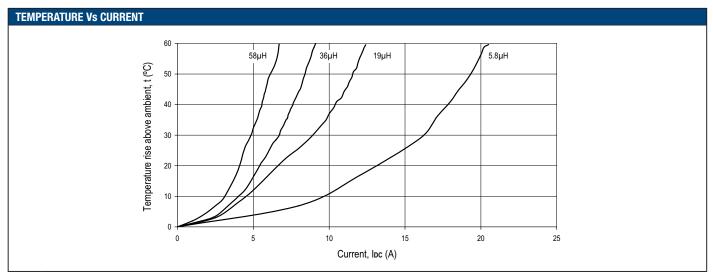
Specifications typical at $T_A = 25^{\circ}C$

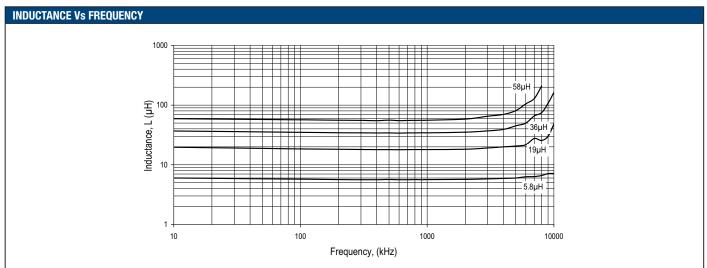
- 1 For further information, please visit www.murata-ps.com/rohs
- 2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 3 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020D and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.
- $4\,$ The instantaneous value when inductance drops to 80% of its normal value.
- 5 Terminal 3 is open-circuit and for mounting stability only.



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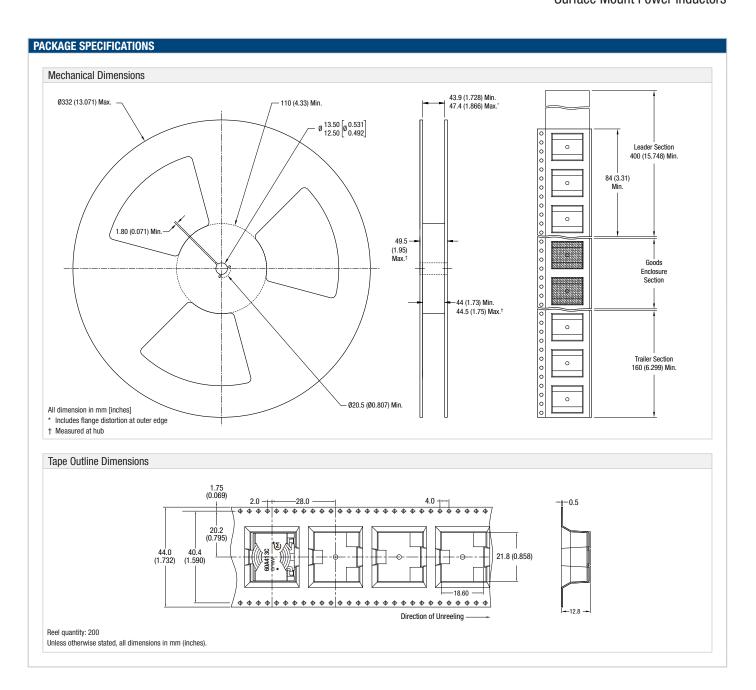
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