

6000A Series

DC Resistance

Max.

 $\text{m}\Omega$

5

6

7

9

11

12

15

18

20

26

Surface Mount Power Inductors

SRF

Тур.

MHz

31

26

21

17

15

13

13

12

11

10



FEATURES

- RoHS compliant¹
- 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

| 60A583C | 57.8 | 6.2 | 4.9 | 8 | 36 | |
|--|------|-----|-----|---|----------------|--|
| | | | | | | |
| ABSOLUTE MAXIMUM RATINGS | | | | | | |
| Operating temperature range ³ | | | | | -40°C to 85°C | |
| Storage temperature range | | | | | -40°C to 150°C | |

Isat4

Max.

Α

22

19

17

13

12

11

10

9.5

8.8

8.4

DC Current²

Max.

Α

14.5

13.5

12.0

9.6

8.5

8.4

7.5

6.8

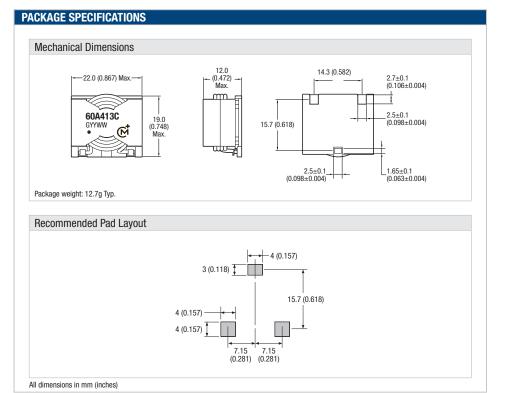
6.4

5.6

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

PRODUCT OVERVIEW

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.







Specifications typical at T_A = 25°C

SELECTION GUIDE

Order Code

60A582C

60A782C

60A103C

60A163C

60A193C

60A233C

60A273C

60A313C

60A363C

60A413C

Inductance, L

0.1V@100KHz (±10%)

μΗ

5.8

7.8

10.2

16.0

19.4

23.0

27.0

31.4

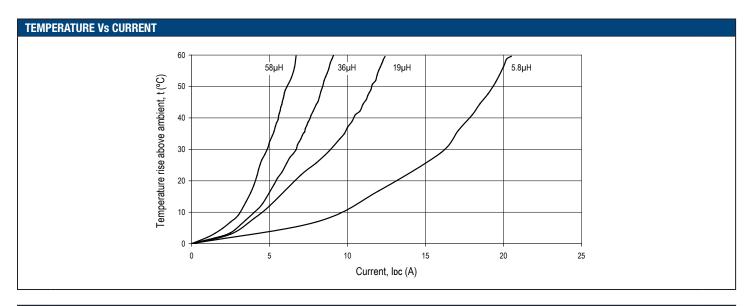
36.0

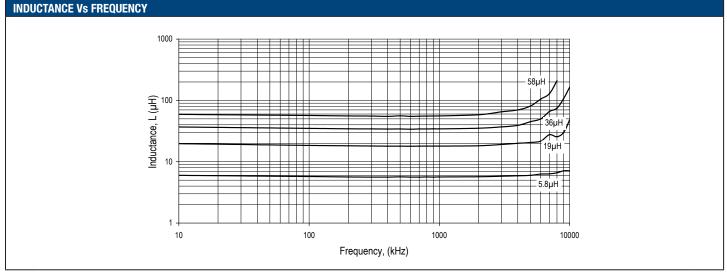
41.0

- 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.

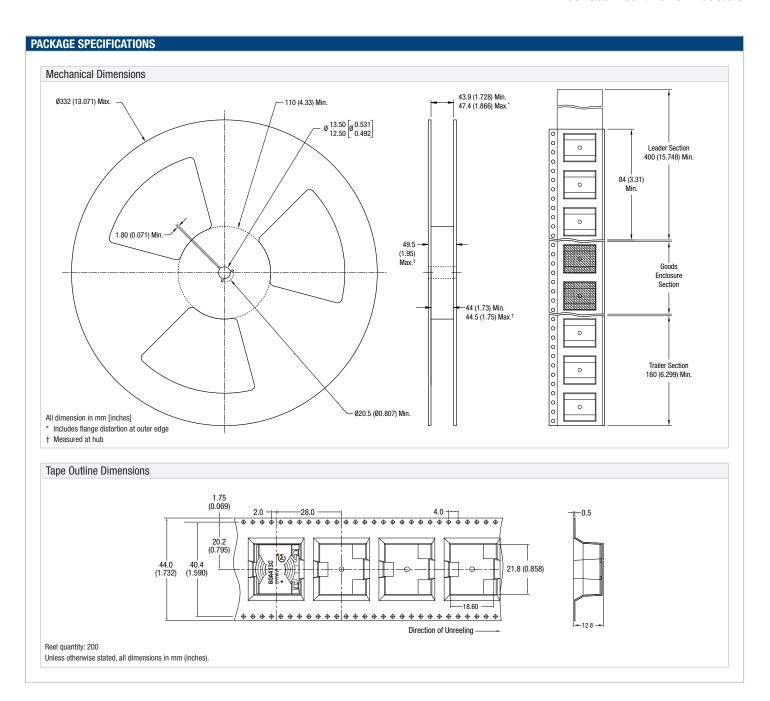
www.murata-ps.com/support

Surface Mount Power Inductors





Surface Mount Power Inductors



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