

8200 Series

Miniature Surface Mount Power Inductors



FEATURES

RoHS	comr	oliant

- Up to 2.0A loc
- 1.0μH to 470μH
- Ultra low profile
- Low RDC
- Tape and reel packaging
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

DES	CRI	PTI	N

The 8200 series is a range of miniature, surface-mount, I-core power inductors. They are designed for use in power applications with restricted PCB space and height, such as ExpressCard™ technology, handheld devices, DC-DC converters and notebook computers. The products are supplied in tape and reel for high-volume, automated surface-mount assembly.

SELECTION	GUIDE						
Order Code	Inductance, L 0.1V @ 10KHz Tolerance		ldc (Max.) ¹	Q	Factor	SRF (Typ.)	Rdc (Max.)
	μH	%	Α	Q (Min.)	at frequency	MHz	Ω
82102C	1.0	±20%	2.0	18	1MHz	133	0.058
82152C	1.5	±20%	1.4	18	1MHz	103	0.068
82222C	2.2	±20%	1.1	18	1MHz	85	0.104
82332C	3.3	±20%	0.95	18	1MHz	67	0.138
82472C	4.7	±20%	0.80	20	1MHz	58	0.190
82682C	6.8	±20%	0.64	20	1MHz	46	0.270
82103C	10	±10%	0.50	35	1MHz	38	0.400
82153C	15	±10%	0.40	35	1MHz	31	0.560
82223C	22	±10%	0.32	35	1MHz	25	0.920
82333C	33	±10%	0.27	40	1MHz	20	1.30
82473C	47	±10%	0.25	40	1MHz	17	1.69
82683C	68	±10%	0.20	40	1MHz	15	2.55
82104C	100	±10%	0.16	40	800k	13	3.5
82154C	150	±10%	0.13	40	800k	11	5.9
82224C	220	±10%	0.10	40	800k	10	8.0
82334C	330	±10%	0.08	40	800k	9	13.5
82474C	470	±10%	0.07	50	800k	9	16.8

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

SOLDERING INFORMATION ²	
Peak reflow temperature	260°C
Pin finish	Hot dipped tin



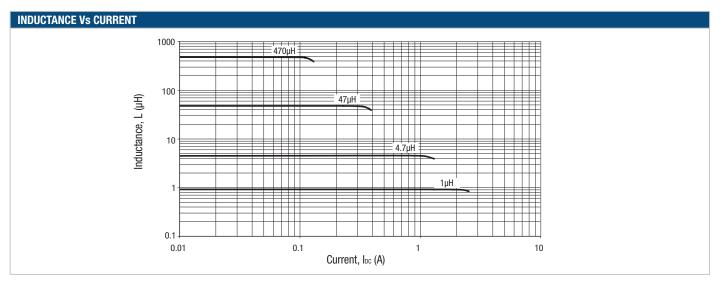


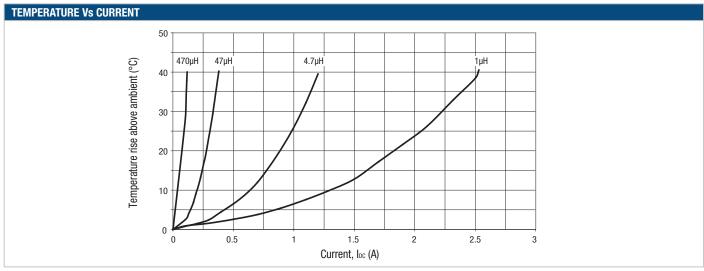
Specifications typical at $\rm T_A {=}~25^{\circ}\rm C$

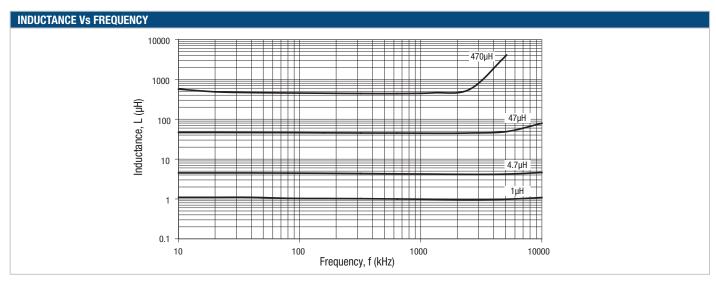
- 1 The maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs

www.murata.com

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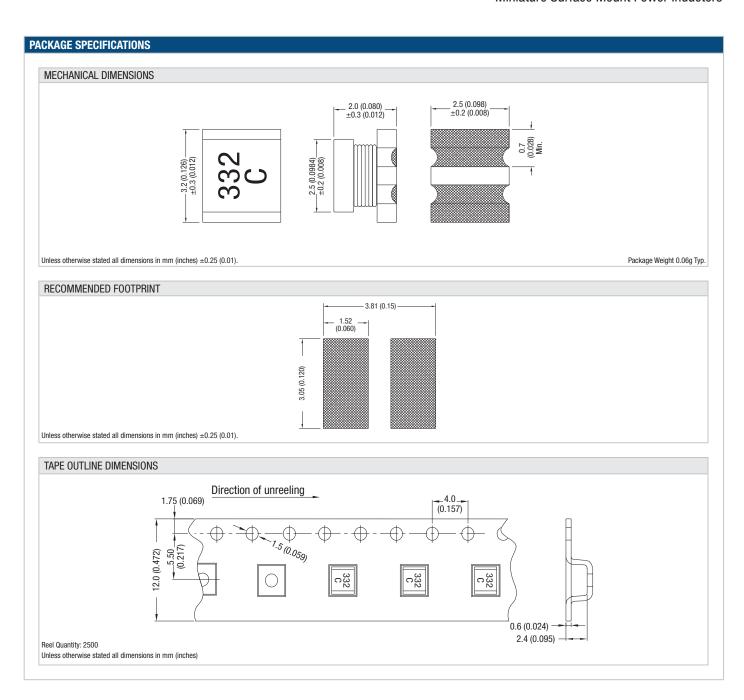


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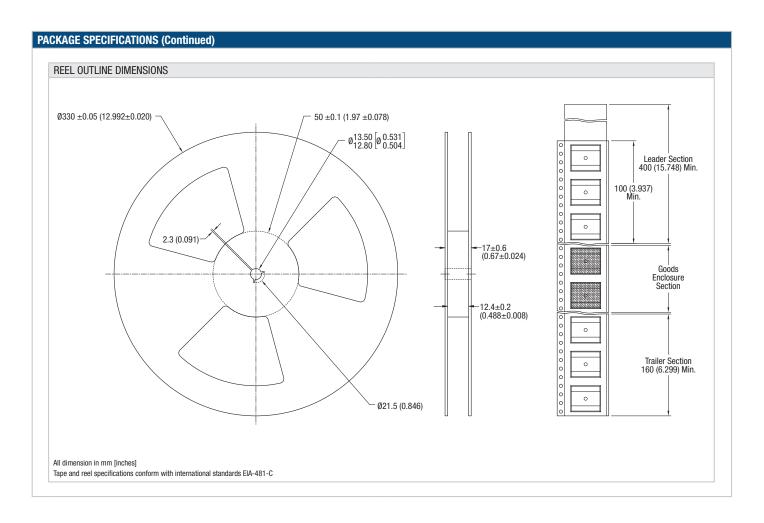


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- Aerospace equipment
- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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KMP_8200C_C01 Page 5 of 5