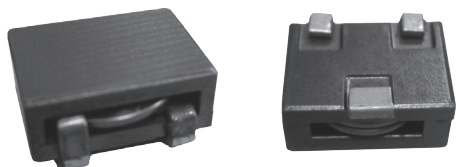




SMD Power Inductor

SER Series



Features

- High current carrying capacity
- Flat wire windings provide exceptionally low DCR

Application

- High current, low voltage power supply applications
- Audio boost circuit

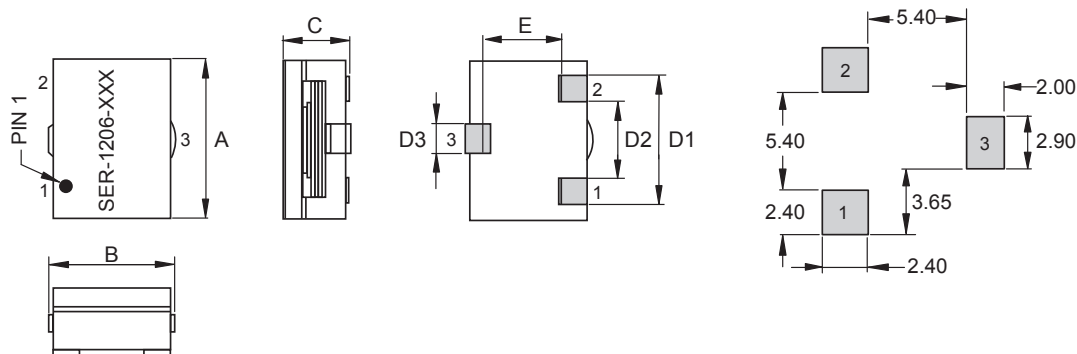
Part Numbering

SER 1206 - R42 K - □

1 2 3 4 5

- 1 Product Group
- 2 Dimension Code
- 3 Inductance Code: R means decimal point
Ex: R42→0.42μH
- 4 Inductance Tolerance K=±10%
- 5 Control Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D1	D2	D3	E
SER1206	12.20±0.50	11.00 (Max)	6.00 (Max)	9.50±0.50	5.85±0.30	2.20±0.20	5.95±0.50

General Technical Data

Operating Temperature Range	-40°C ~ +125°C
Storage Temperature	40°C Max. , 70%RHMax.

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- The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.



SMD Power Inductor

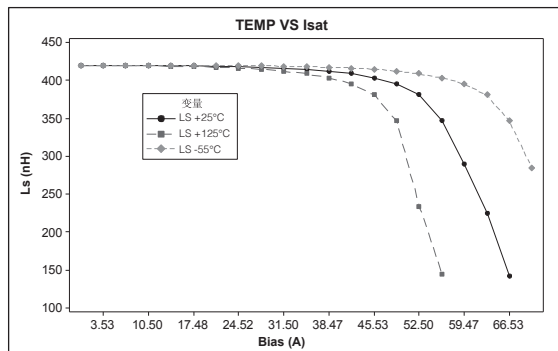
SER Series

Electrical Characteristics

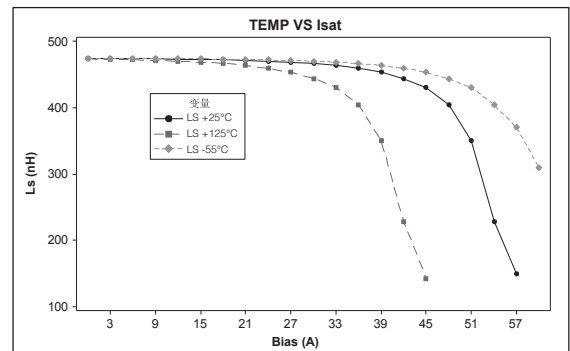
Part Number	Inductance	Test Frequency	DC Resistance (RDC)	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
SER1206 Series					
SER1206-R42K-□	$0.42\mu H \pm 10\%$	100KHz	$3.15m\Omega \pm 10\%$	42A	16A
SER1206-R48K-□	$0.48\mu H \pm 10\%$	100KHz	$3.15m\Omega \pm 10\%$	37A	16A
SER1206-R90K-□	$0.90\mu H \pm 10\%$	100KHz	$4.60m\Omega \pm 10\%$	28A	14A
SER1206-1R0K-□	$1.00\mu H \pm 10\%$	100KHz	$4.60m\Omega \pm 10\%$	25A	14A
SER1206-1R5K-□	$1.50\mu H \pm 10\%$	100KHz	$4.60m\Omega \pm 10\%$	21A	14A

- I_{SAT} (A) current will cause L0 to drop approximately 5% typical. (keep quickly)
- Temperature Rise Current for a 40°C rise above 25°C ambient

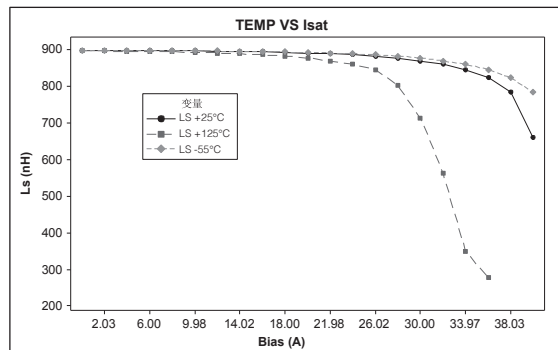
SER1206-R42K



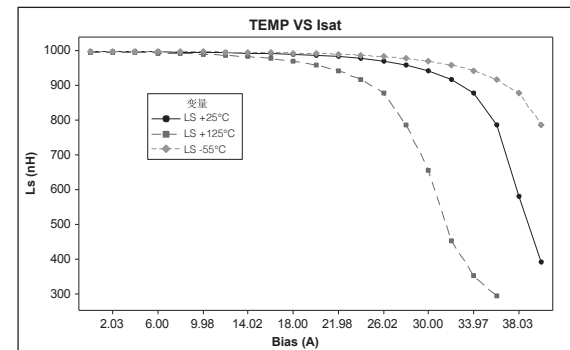
SER1206-R48K



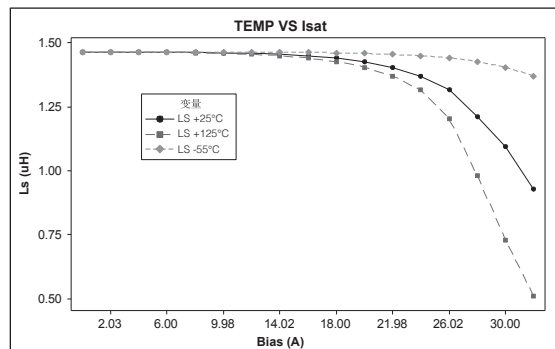
SER1206-R90K



SER1206-1R0K



SER1206-1R5K



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