

# Low-Profile High Current Power Inductor CY0630AT125/DS



## Description

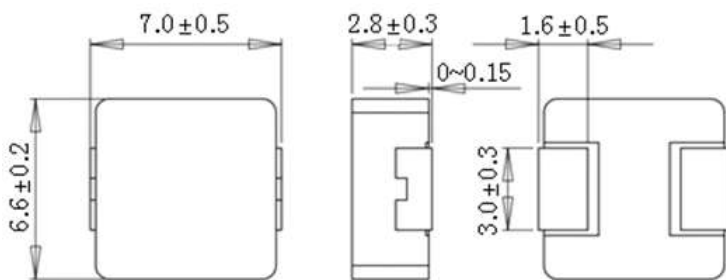
- Metal composite type
- L x W x H: 6.80 x 7.50 x 3.10 mm Max.
- Absolute maximum voltage (across inductor): 50V
- Magnetically shielded
- Qualified AEC-Q200
- Operating temperature range: -40°C~ +125°C (including self-heating)



## Applications

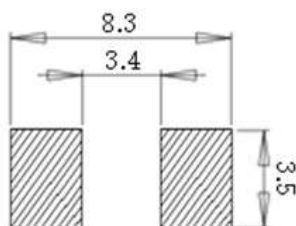
- Infotainment system, ADAS, LED lighting
- ECU
- Automotive and other high temperature, high reliability applications

## Dimension - [mm]

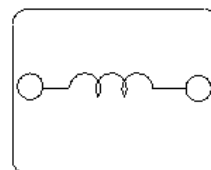


\* Dimension without tolerance is reference value.

## Reference Land pattern – [mm]



## Connection



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# Low-Profile High Current Power Inductor

## CY0630AT125/DS



### Electrical Characteristics

Part No.	Stamp	Inductance [within] ( $\mu$ H) ※1	D.C.R (m $\Omega$ ) at 25°C Max. (Typ.)	Saturation Current (A) (at 25°C) Max. (Typ.) ※2	Temperature Rise Current (A) Max. (Typ.) ※3
CY0630AT125DS-R22MC	R22	0.22±20%	2.9(2.5)	25.6(32.0)	18.2(20.9)
CY0630AT125DS-R33MC	R33	0.33±20%	3.2(2.8)	25.0(31.6)	17.2(19.9)
CY0630AT125DS-R47MC	R47	0.47±20%	4.4(3.8)	18.9(23.7)	14.4(16.4)
CY0630AT125DS-R68MC	R68	0.68±20%	5.4(4.7)	15.6(19.6)	13.2(15.1)
CY0630AT125DS-R82MC	R82	0.82±20%	6.3(5.5)	12.9(16.2)	12.0(14.0)
CY0630AT125DS-1R0MC	1R0	1.0±20%	8.1(7.0)	12.6(15.8)	10.5(12.0)
CY0630AT125DS-1R5MC	1R5	1.5±20%	12.2(10.6)	11.8(14.8)	8.5(9.6)
CY0630AT125DS-2R2MC	2R2	2.2±20%	17.3(15.0)	9.6(12.0)	7.0(8.0)
CY0630AT125DS-3R3MC	3R3	3.3±20%	26.0(22.6)	8.4(10.6)	5.9(6.7)
CY0630AT125DS-4R7MC	4R7	4.7±20%	38.3(33.3)	6.5(8.4)	4.8(5.4)
CY0630AT125DS-6R8MC	6R8	6.8±20%	54.1(47.0)	6.2(7.8)	3.4(3.9)
CY0630AT125DS-8R2MC	8R2	8.2±20%	58.1(50.5)	5.2(6.5)	3.2(3.7)
CY0630AT125DS-100MC	100	10.0±20%	68.0(59.0)	5.0(6.2)	3.0(3.5)
CY0630AT125DS-150MC	150	15.0±20%	111.6(97.0)	4.2(5.3)	2.3(2.6)
CY0630AT125DS-220MC	220	22.0±20%	161.0(140.0)	3.2(4.1)	2.1(2.4)
CY0630AT125DS-330MC	330	33.0±20%	253.0(220.0)	2.5(3.3)	1.7(2.0)

※1 Measuring frequency inductance at 100kHz, 0.25V

※2 Saturation current: This indicates the value of DC current when the inductance becomes 30% lower than its initial value.

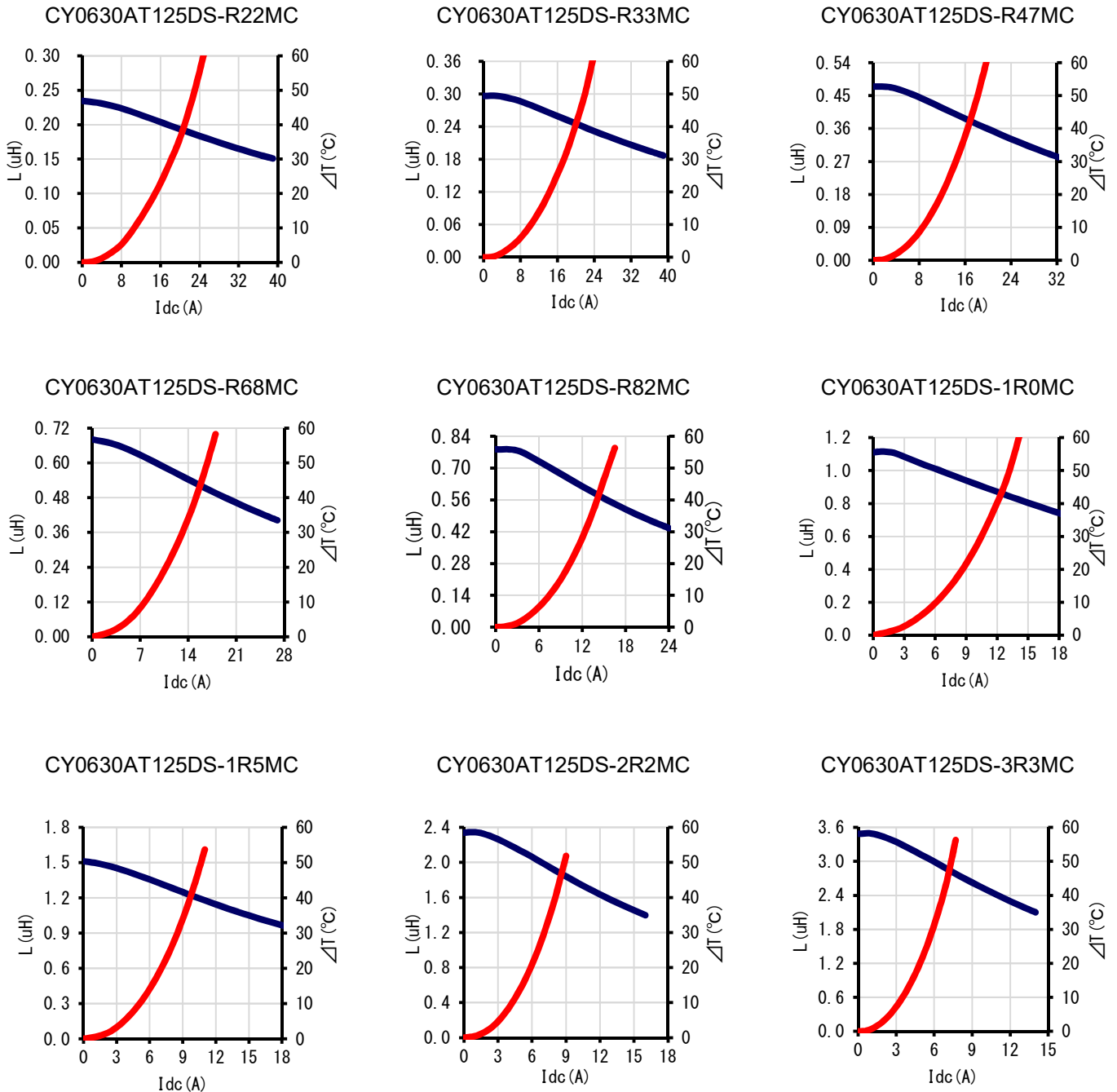
※3 The value of DC current when the temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=25^{\circ}\text{C}$ ).

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# Low-Profile High Current Power Inductor CY0630AT125/DS



Saturation Current & Temperature Rise Graph — L (25°C) —  $\Delta T$

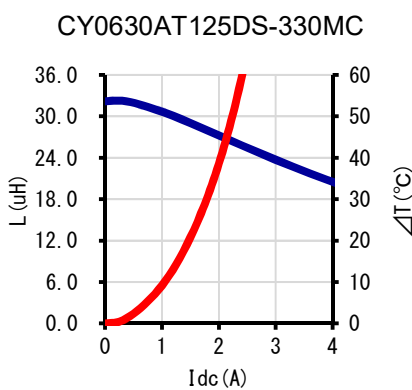
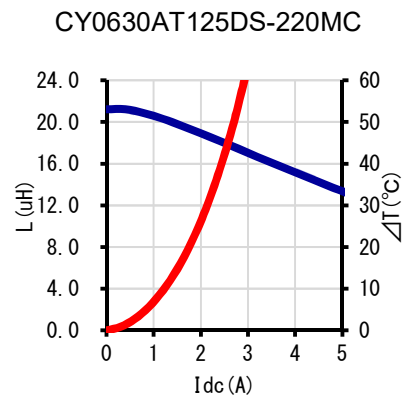
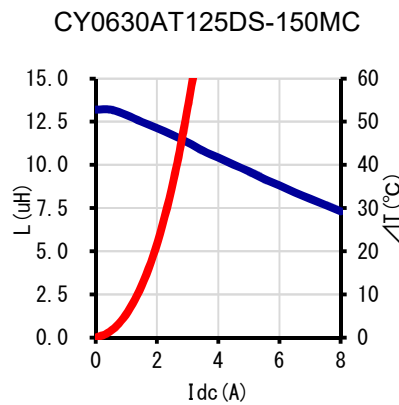
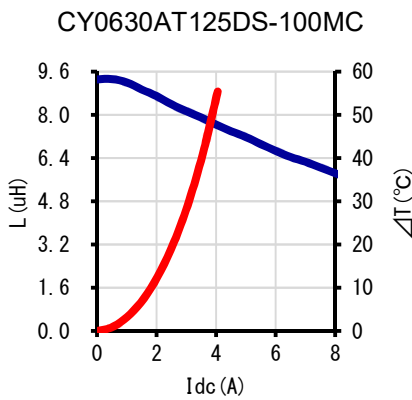
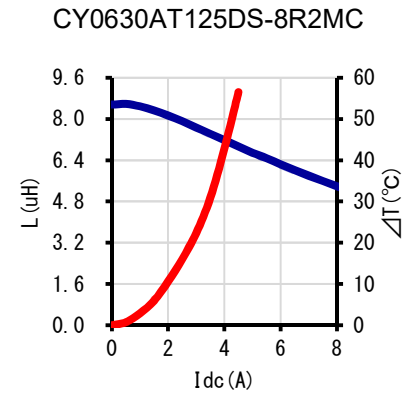
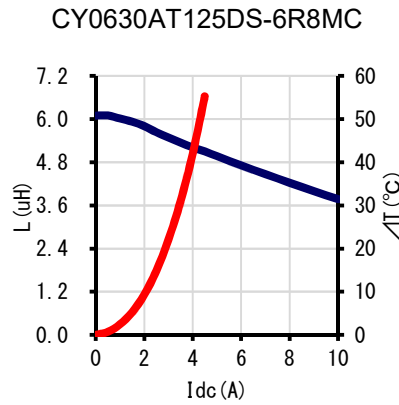
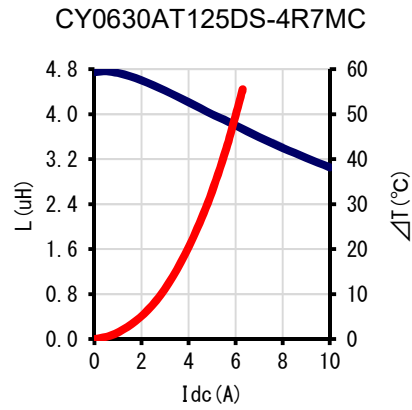


Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# Low-Profile High Current Power Inductor CY0630AT125/DS



Saturation Current & Temperature Rise Graph    — L (25°C)    —  $\Delta T$

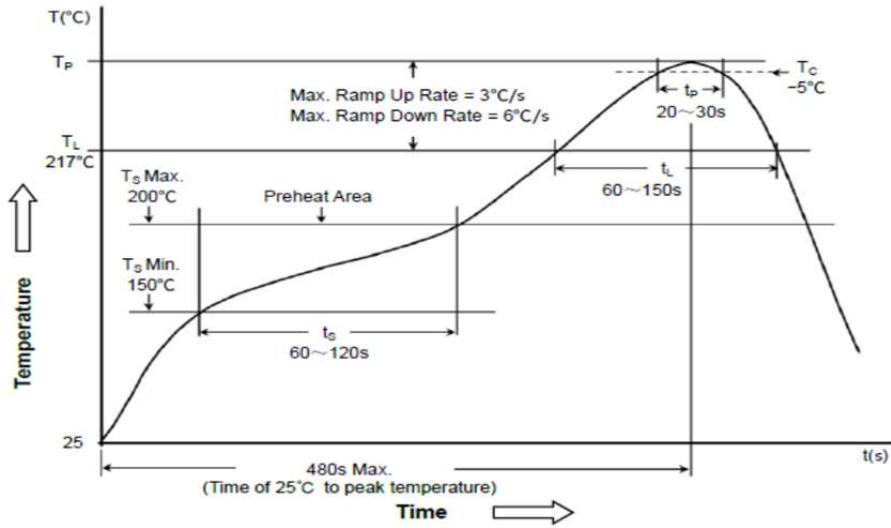


Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

# Low-Profile High Current Power Inductor CY0630AT125/DS



## Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [Sumida](#) manufacturer:*

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)  
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)  
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)  
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)  
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)  
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)