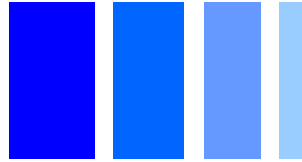
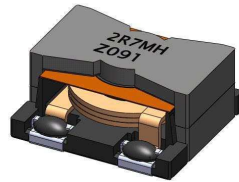


SMD Power Inductor CDPQ2010



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Description

- Ferrite core construction.
- Magnetically shielded.
- L x W x H: 24.4 x 21.0 x 11.0 mm Max.
- Product weight: 15.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

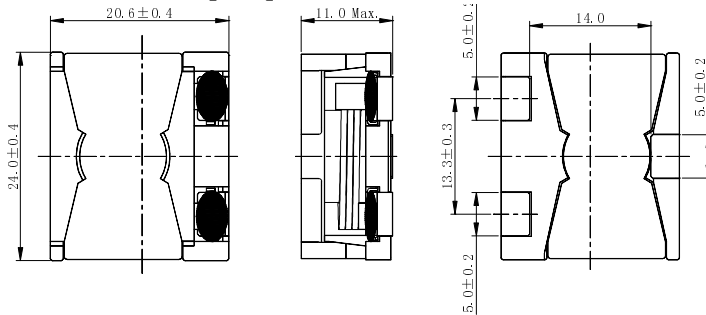
Packaging

- Pallet packaging.

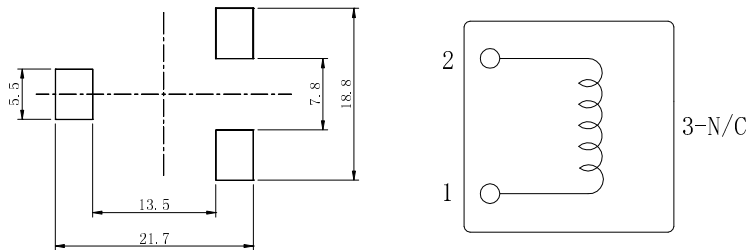
Applications

- Power supply of portable base station, +48Vdc input environment power supply used for industrial instrument.

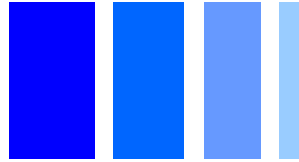
Dimension - [mm]



Land pattern and Schematics - [mm]



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 **sumida**

Under Development

Electrical Characteristics - 1

NO.	Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Max.] (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
					20°C	125°C	
01	CDPQ2010NP-2R7MC-180	2R7MH	2.7 \pm 20%	2.00(1.65)	29.2(36.5)	20.4(25.5)	21.0
02	CDPQ2010NP-3R9MC-180	3R9MH	3.9 \pm 20%	2.40(2.00)	23.5(29.4)	16.4(20.5)	20.0
03	CDPQ2010NP-5R6MC-180	5R6MH	5.6 \pm 20%	3.45(2.85)	19.2(24.0)	13.2(16.6)	17.0
04	CDPQ2010NP-7R5MC-180	7R5MH	7.5 \pm 20%	4.68(3.90)	17.0(21.3)	11.8(14.8)	14.0
05	CDPQ2010NP-100MC-180	100MH	10 \pm 20%	5.80(4.85)	14.6(18.3)	10.1(12.7)	12.6

Electrical Characteristics - 2

NO.	Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Max.] (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
					20°C	125°C	
06	CDPQ2010NP-3R9MC-270	3R9MS	3.9 \pm 20%	2.00(1.65)	19.0(23.8)	13.2(16.6)	21.0
07	CDPQ2010NP-6R2MC-270	6R2MS	6.2 \pm 20%	2.40(2.00)	15.7(19.6)	11.0(13.7)	20.0
08	CDPQ2010NP-8R8MC-270	8R8MS	8.8 \pm 20%	3.45(2.85)	12.4(15.5)	8.7(10.9)	17.0
09	CDPQ2010NP-120MC-270	120MS	12 \pm 20%	4.68(3.90)	10.8(13.5)	7.5(9.4)	14.0
10	CDPQ2010NP-150MC-270	150MS	15 \pm 20%	5.80(4.85)	9.7(12.1)	6.6(8.3)	12.6

Electrical Characteristics - 3

NO.	Part No	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Max.] (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
					20°C	125°C	
11	CDPQ2010NP-4R7MC-330	4R7ML	4.7 \pm 20%	2.00(1.65)	15.6(19.5)	11.0(13.8)	21.0
12	CDPQ2010NP-7R5MC-330	7R5ML	7.5 \pm 20%	2.40(2.00)	12.3(15.4)	8.6(10.7)	20.0
13	CDPQ2010NP-100MC-330	100ML	10 \pm 20%	3.45(2.85)	10.3(12.9)	7.0(8.8)	17.0
14	CDPQ2010NP-140MC-330	140ML	14 \pm 20%	4.68(3.90)	9.8(12.3)	6.9(8.6)	14.0
15	CDPQ2010NP-180MC-330	180ML	18 \pm 20%	5.80(4.85)	7.7(9.6)	5.3(6.7)	12.6

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=25^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

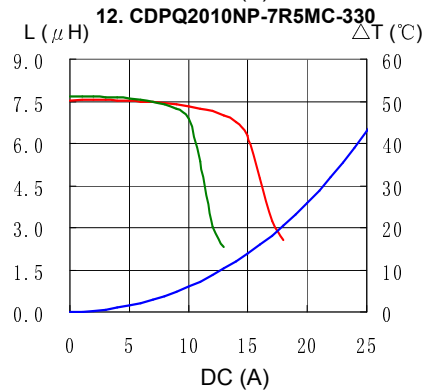
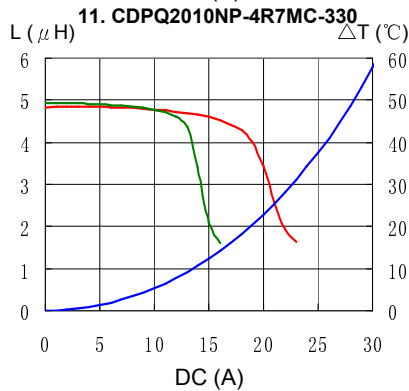
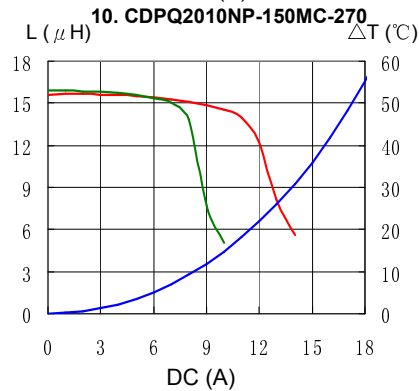
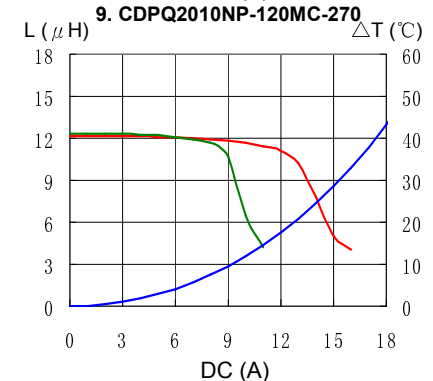
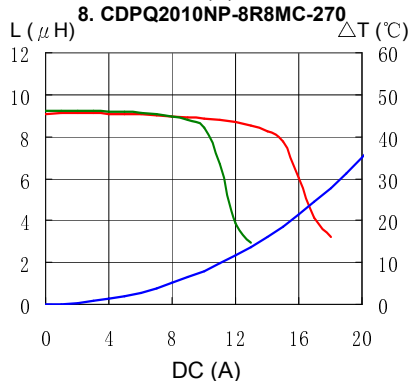
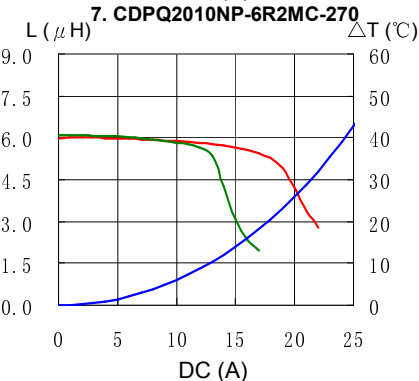
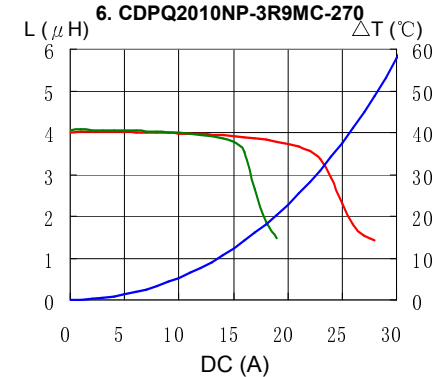
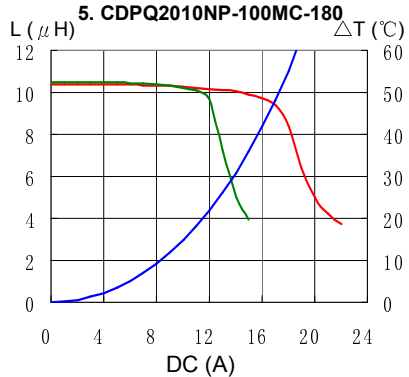
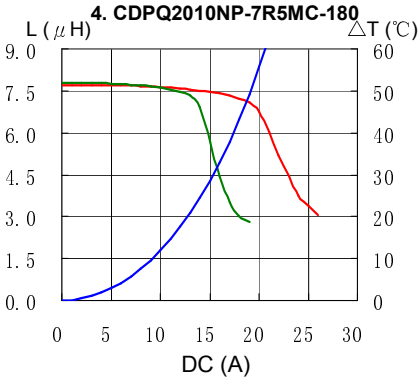
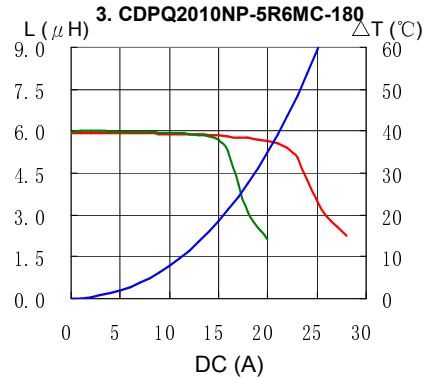
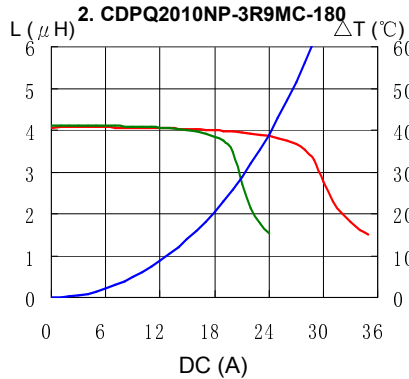
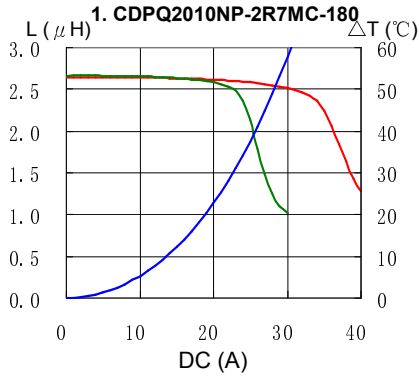
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT



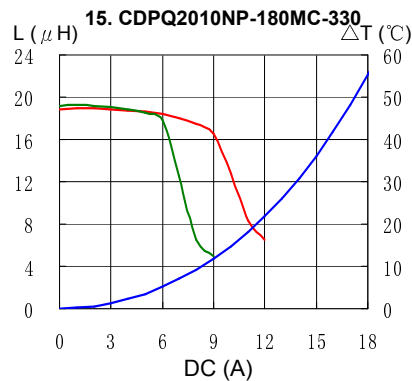
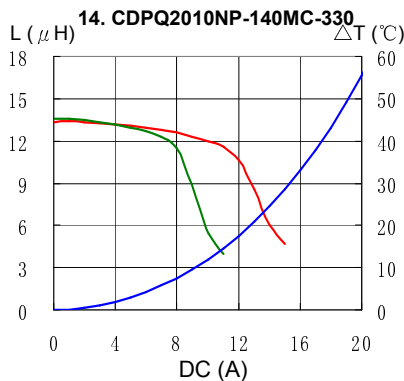
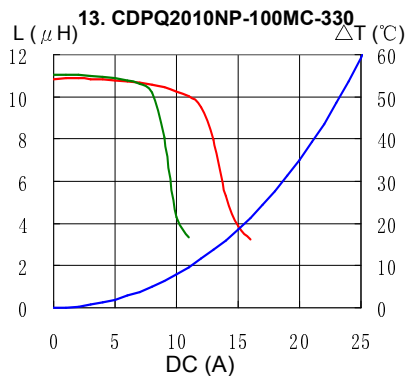
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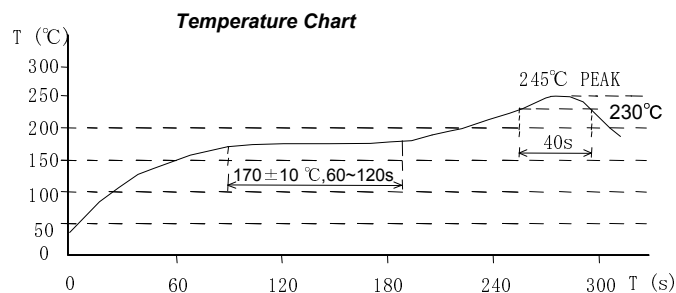
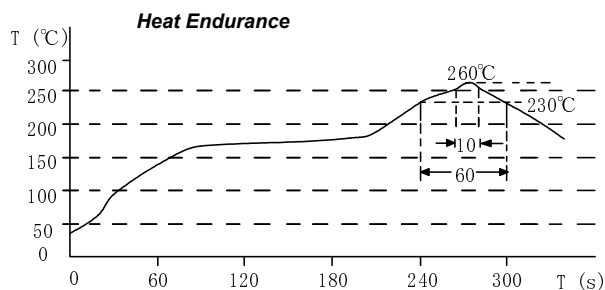
Under Development

Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel.+852-2880-6688
FAX.+852-2565-9600
sales@hk.sumida.com

Tokyo

Tel.+81-3-5202-7112
FAX.+81-3-5202-7105
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX.+1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-021-5836-3299
FAX.+86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX.+49-8591-937-103
contact@sumida-eu.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6296-3390
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX.+49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com