SMD Power Inductor

CDRH58D18R

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 2.0mm Max.
- Product weight: 0.2g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



Environmental Data

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

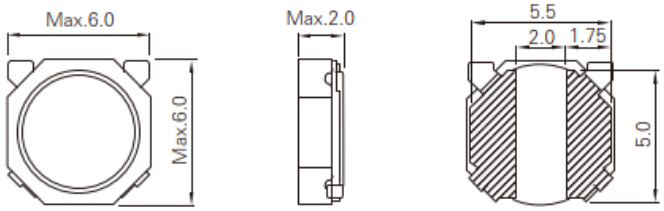
Packaging

- Carrier tape and reel packaging.
- 13.0"diameter reel
- 3,000pcs per reel

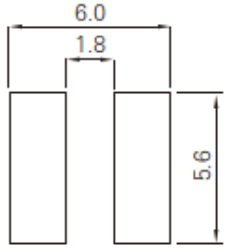
Applications

- Ideally used in DVD, camcorder, Single -lens reflex camera etc.

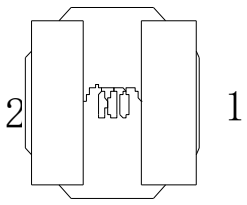
Dimension - [mm]



Land patterns - [mm]



Schematics



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

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Electrical Characteristics

Part No.	Inductance (μH) [Within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation current (A) Max. (Typ.) ※2		Temperature rise current (A) (Typ.) ※3
			at 20℃	at 105℃	
CDRH58D18RNP-R90NC	0.9 ± 30%	16.3 (13.0)	3.74 (4.43)	2.80 (3.49)	(5.35)
CDRH58D18RNP-1R5NC	1.5 ± 30%	20.6 (16.5)	2.95 (3.64)	2.20 (2.89)	(4.60)
CDRH58D18RNP-2R0NC	2.0 ± 30%	25.0 (20.0)	2.66 (3.22)	1.93 (2.50)	(4.42)
CDRH58D18RNP-3R6NC	3.6 ± 30%	36.3 (29.0)	2.03 (2.46)	1.47 (1.88)	(3.65)
CDRH58D18RNP-4R7MC	4.7 ± 20%	38.8 (31.0)	1.74 (2.24)	1.30 (1.66)	(3.45)
CDRH58D18RNP-6R8MC	6.8 ± 20%	62.5 (50.0)	1.44 (1.73)	1.07 (1.37)	(2.73)
CDRH58D18RNP-100MC	10 ± 20%	92.5 (74.0)	1.17 (1.41)	0.87 (1.14)	(2.12)
CDRH58D18RNP-150MC	15 ± 20%	132 (110)	0.95 (1.16)	0.70 (0.90)	(1.75)
CDRH58D18RNP-220MC	22 ± 20%	194 (162)	0.79 (0.98)	0.60 (0.76)	(1.42)
CDRH58D18RNP-330MC	33 ± 20%	269 (224)	0.63 (0.80)	0.47 (0.63)	(1.17)
CDRH58D18RNP-470MC	47 ± 20%	388 (323)	0.55 (0.67)	0.40 (0.53)	(0.95)
CDRH58D18RNP-680MC	68 ± 20%	595 (496)	0.45 (0.56)	0.33 (0.44)	(0.76)
CDRH58D18RNP-101MC	100 ± 20%	875 (729)	0.37 (0.45)	0.27 (0.36)	(0.66)
CDRH58D18RNP-151MC	150 ± 20%	1,278 (1,065)	0.30 (0.37)	0.23 (0.29)	(0.51)
CDRH58D18RNP-221MC	220 ± 20%	2,010 (1,675)	0.25 (0.32)	0.20 (0.25)	(0.40)
CDRH58D18RNP-331MC	330 ± 20%	3,192 (2,660)	0.21 (0.26)	0.16 (0.21)	(0.32)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 70% of its initial value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

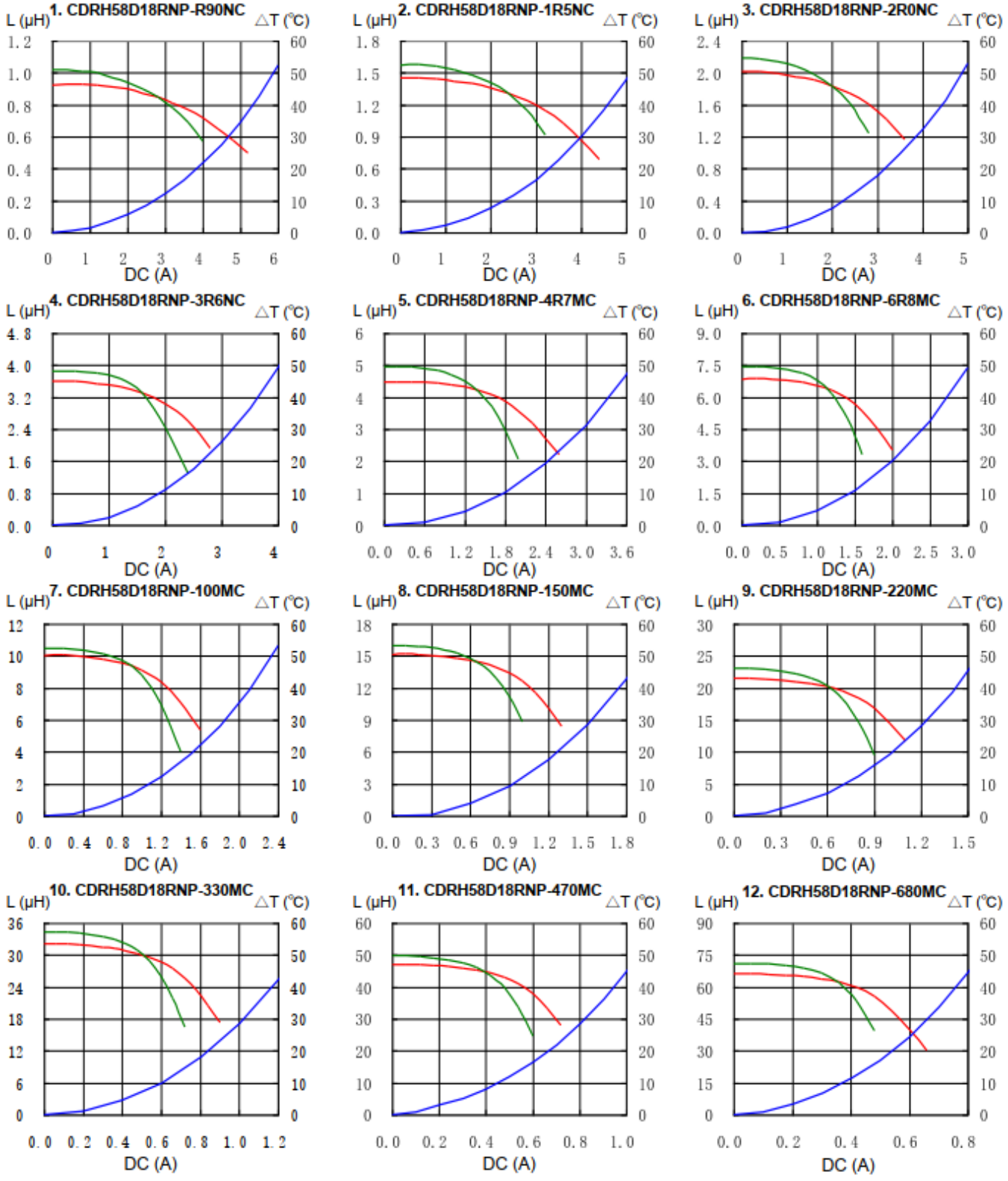
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Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T



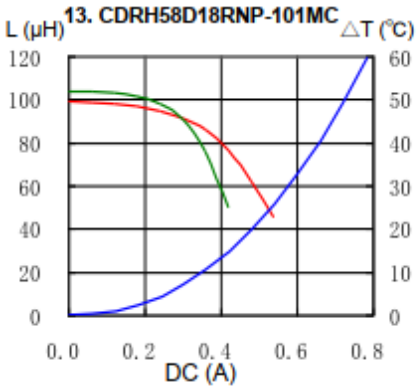
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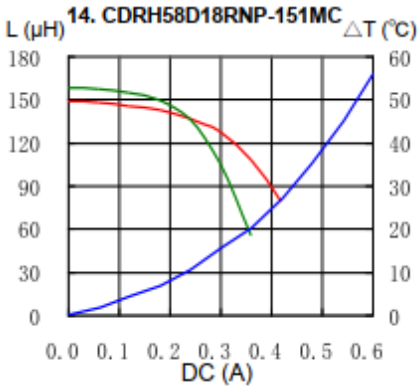
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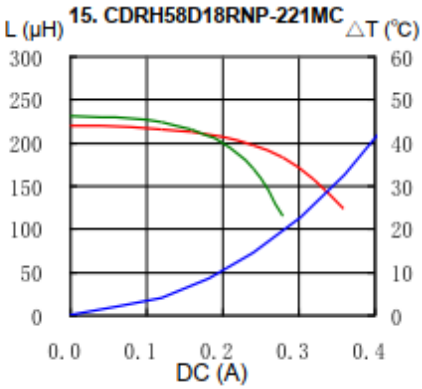
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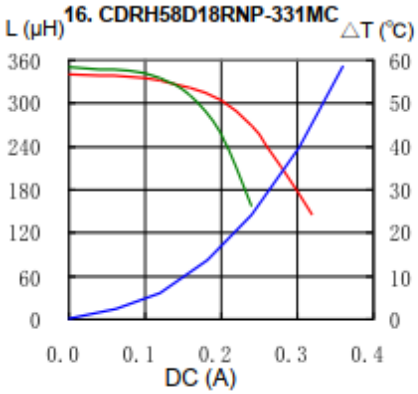
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L (20℃) L (100℃) △T



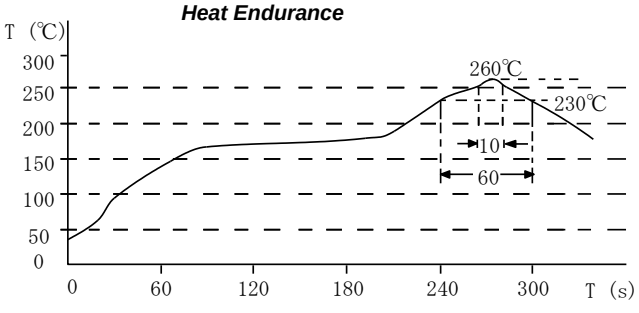




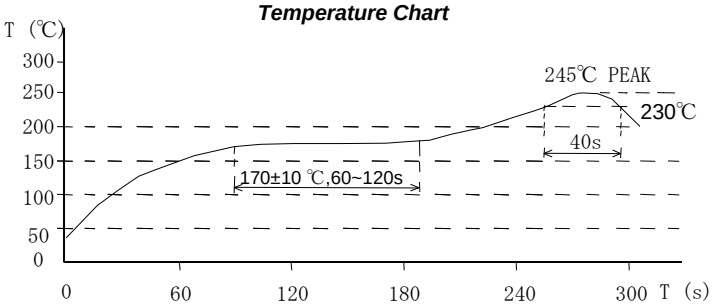


Solder Reflow Condition

Heat Endurance



Temperature Chart



For sales office information, please click here to visit our website.

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