

SMD Power Inductor CDRR157



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 18.5 × 15.0 × 7.0mm Max.
- Product weight: 2.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

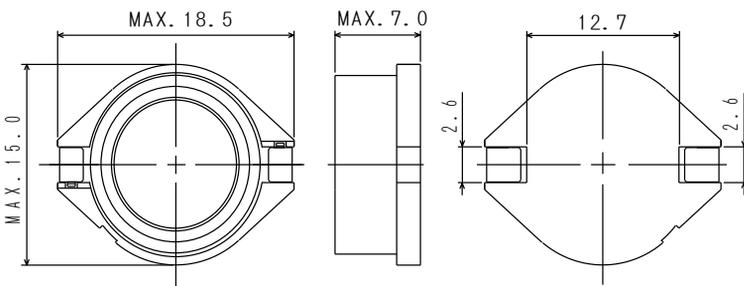
Packaging

- Carrier tape and reel packaging.
- 13" diameter reel
- 300pcs per reel

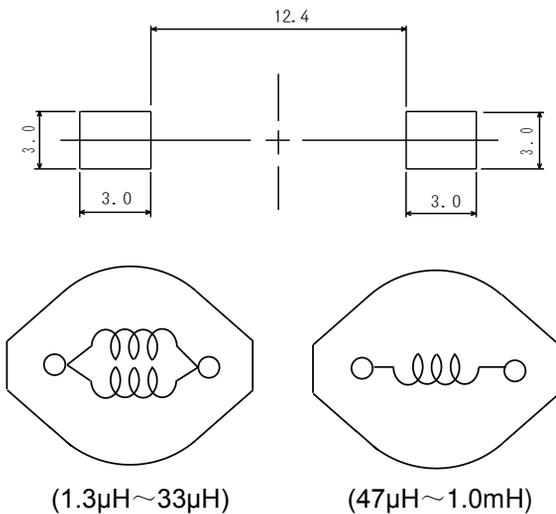
Applications

- Ideally used in Portable Computers, Video Recorder, DSC/DVC, etc as DC-DC Converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]





Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature rise current (A) ※3
CDRR157NP-1R3MC	1R3M	1.3 $\mu\text{H} \pm 20\%$	5.7(4.5)	17.0	9.2
CDRR157NP-2R0MC	2R0M	2.0 $\mu\text{H} \pm 20\%$	7.0(5.6)	13.4	9.0
CDRR157NP-2R7MC	2R7M	2.7 $\mu\text{H} \pm 20\%$	8.3(6.6)	12.0	8.0
CDRR157NP-3R3MC	3R3M	3.3 $\mu\text{H} \pm 20\%$	9.6(7.7)	10.8	7.5
CDRR157NP-4R7MC	4R7M	4.7 $\mu\text{H} \pm 20\%$	12.9(10.3)	9.2	6.5
CDRR157NP-6R8MC	6R8M	6.8 $\mu\text{H} \pm 20\%$	16.5(13.2)	7.6	6.0
CDRR157NP-100MC	100M	10 $\mu\text{H} \pm 20\%$	25.0(20.0)	6.4	5.0
CDRR157NP-150MC	150M	15 $\mu\text{H} \pm 20\%$	37.5(30.0)	5.0	3.8
CDRR157NP-220MC	220M	22 $\mu\text{H} \pm 20\%$	47.0(37.5)	4.2	3.5
CDRR157NP-330MC	330M	33 $\mu\text{H} \pm 20\%$	69.0(55.0)	3.5	2.7
CDRR157NP-470MC	470M	47 $\mu\text{H} \pm 20\%$	105.0(84.0)	2.9	2.0
CDRR157NP-680MC	680M	68 $\mu\text{H} \pm 20\%$	166.0(133)	2.4	1.6
CDRR157NP-101MC	101M	100 $\mu\text{H} \pm 20\%$	244.0(195)	2.0	1.3
CDRR157NP-151MC	151M	150 $\mu\text{H} \pm 20\%$	330.0(264)	1.6	1.1
CDRR157NP-221MC	221M	220 $\mu\text{H} \pm 20\%$	485.0(388)	1.3	0.9
CDRR157NP-271MC	271M	270 $\mu\text{H} \pm 20\%$	595.0(475)	1.2	0.8
CDRR157NP-331MC	331M	330 $\mu\text{H} \pm 20\%$	738.0(590)	1.1	0.7
CDRR157NP-471MC	471M	470 $\mu\text{H} \pm 20\%$	1000.0(800)	0.9	0.6
CDRR157NP-681MC	681M	680 $\mu\text{H} \pm 20\%$	1544(1227)	0.75	0.5
CDRR157NP-102MC	102M	1000 $\mu\text{H} \pm 20\%$	2388(1910)	0.60	0.4

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

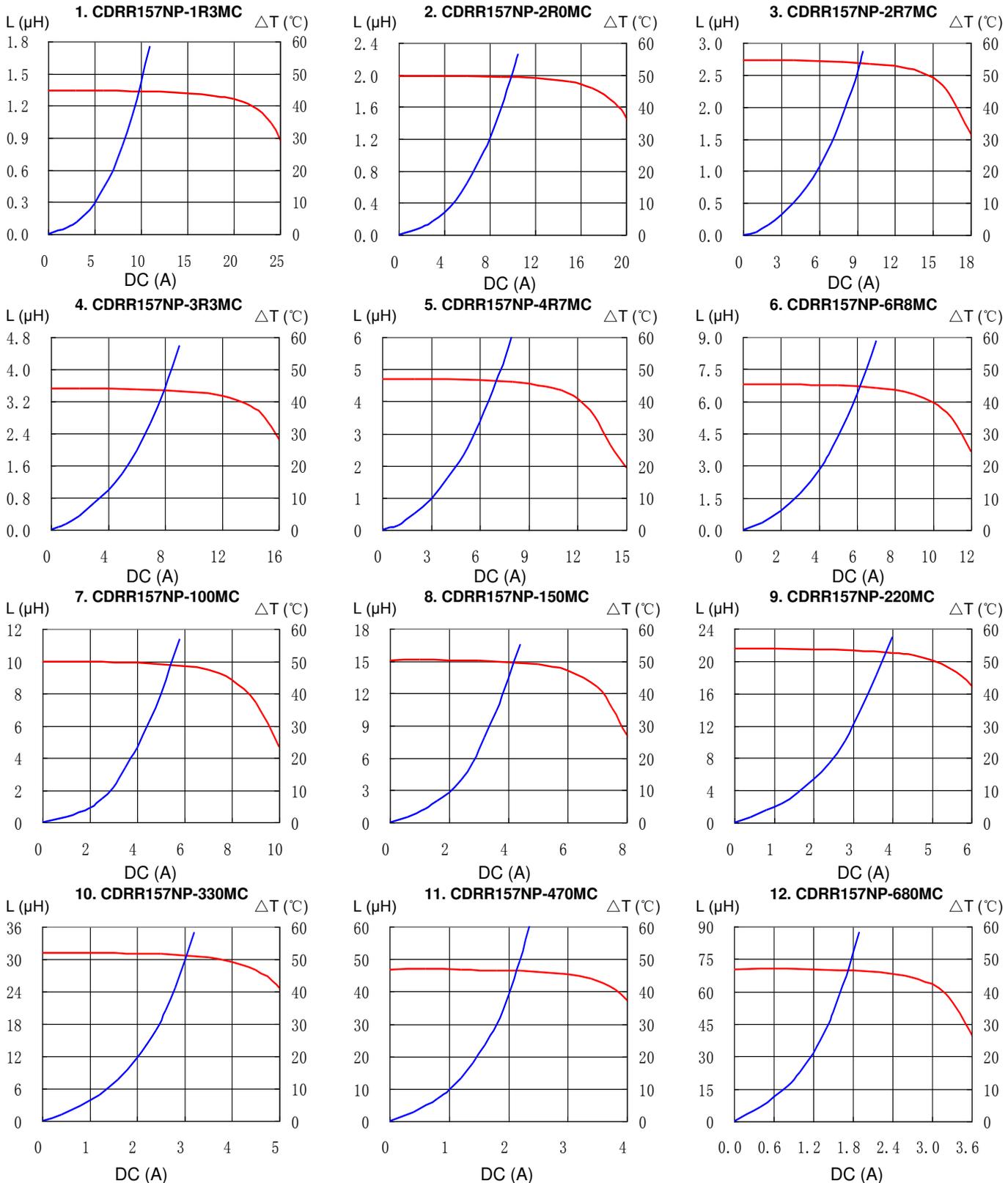
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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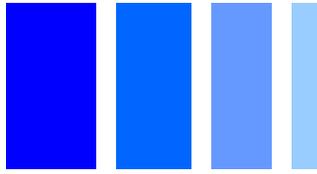


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

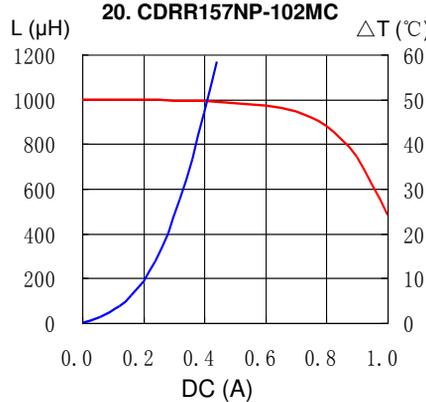
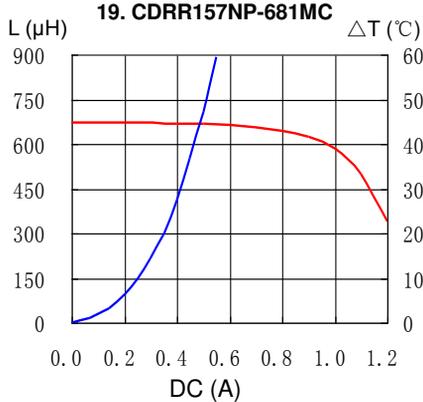
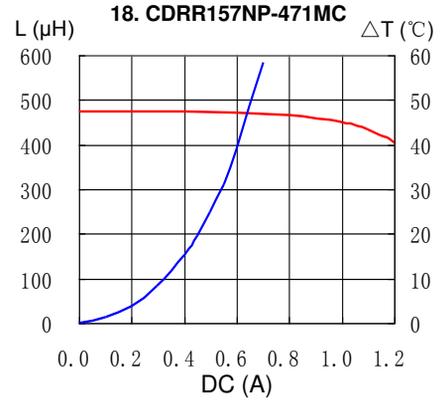
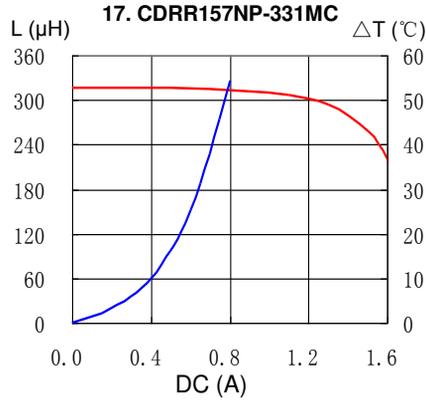
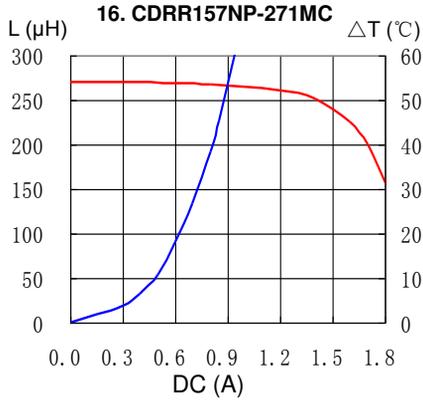
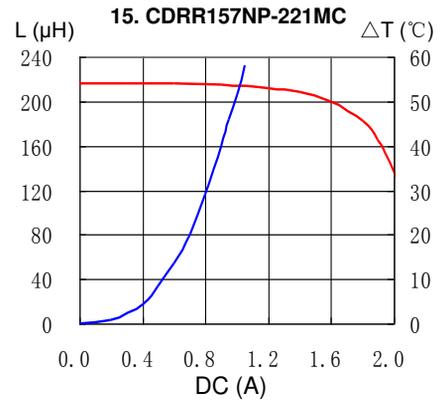
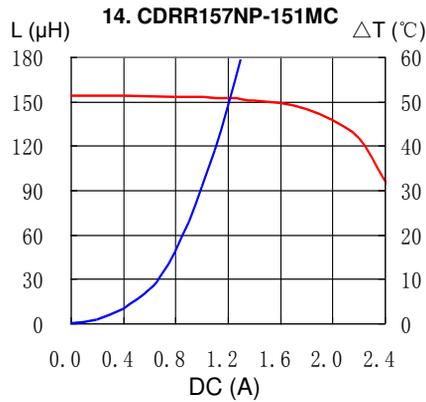
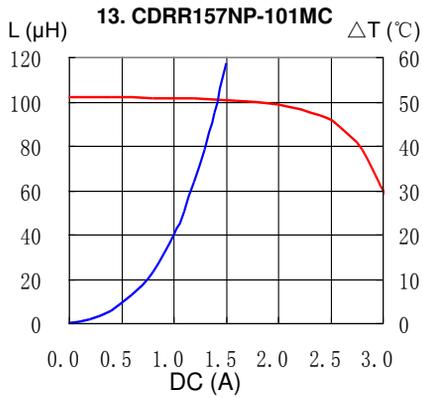


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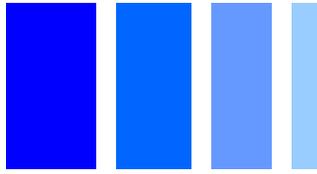


Saturation Current & Temperature Rise Graph

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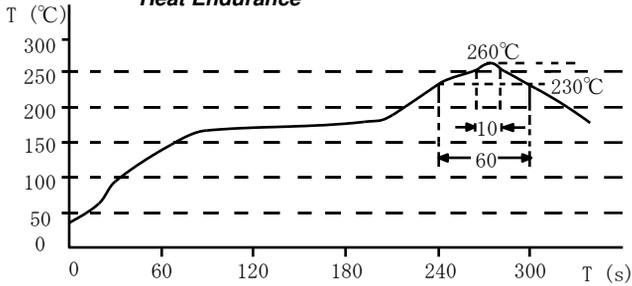


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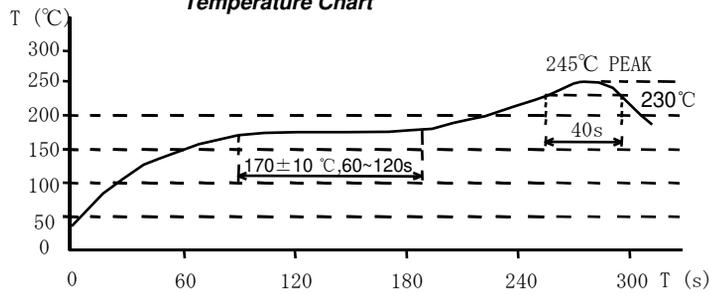


Solder Reflow Condition

Heat Endurance



Temperature Chart



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

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