

SMD Power Inductor CDEPI115ME



Under Development



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 12.4 × 11.4 × 5.5 mm Max.
- Product weight: 2.14g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified to AEC-Q200.

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.

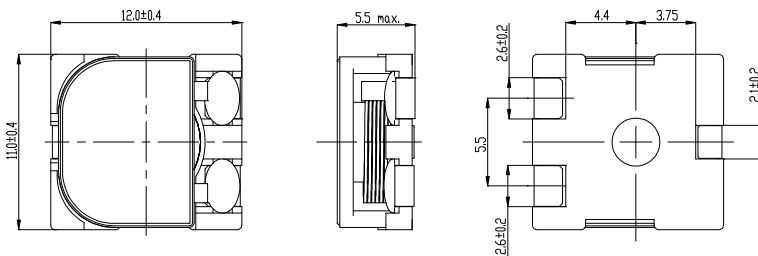
Packaging

- Carrier tape and reel packaging

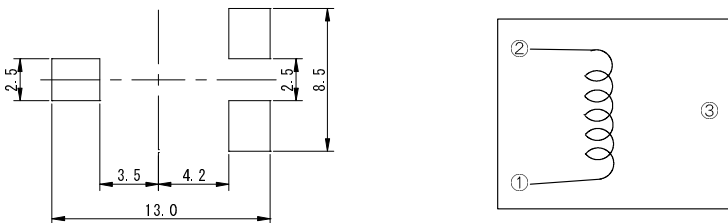
Applications

- Automotive and other high temperature, high reliability application.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max.(typ.) (at 20°C)	Saturation Current (A) ※2 (at 20°C)	Temperature Rise Current (A) ※3
CDEPI115MENP-R27PC	R27P	0.27 ±25%	1.72(1.43)	42.0	16.3
CDEPI115MENP-R62PC	R62P	0.62 ±25%	2.77(2.31)	27.0	13.3
CDEPI115MENP-1R0PC	1R0P	1.0 ±25%	4.28(3.57)	22.0	10.5
CDEPI115MENP-1R6PC	1R6P	1.6 ±25%	6.73(5.61)	16.5	8.4
CDEPI115MENP-2R4PC	2R4P	2.4 ±25%	9.85(8.21)	14.5	6.9
CDEPI115MENP-3R3PC	3R3P	3.3 ±25%	14.3(11.9)	12.0	5.8
CDEPI115MENP-4R3PC	4R3P	4.3 ±25%	16.3(13.6)	10.0	5.4
CDEPI115MENP-5R6PC	5R6P	5.6 ±25%	22.6(18.8)	9.0	4.7

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

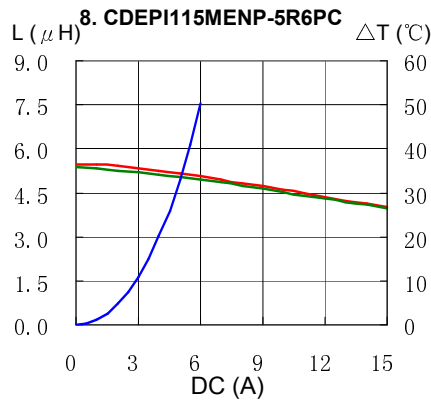
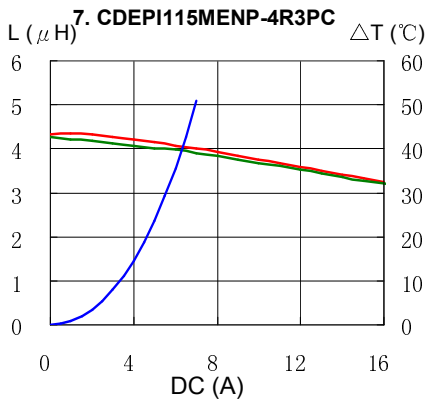
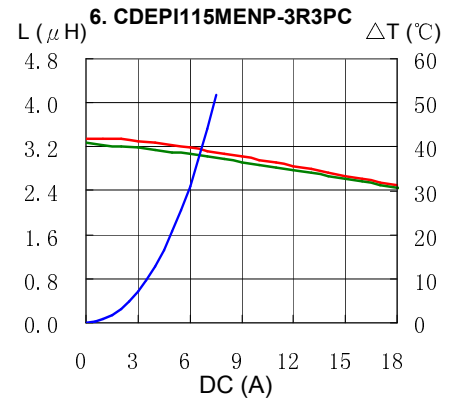
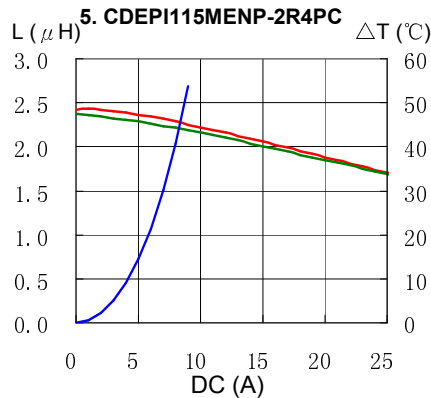
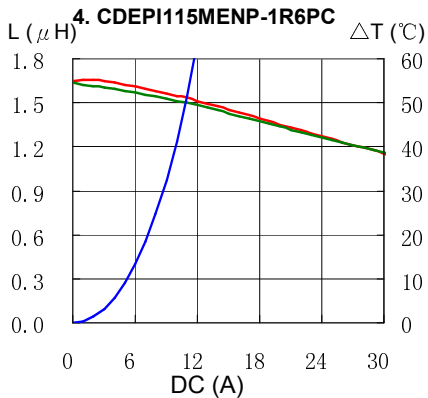
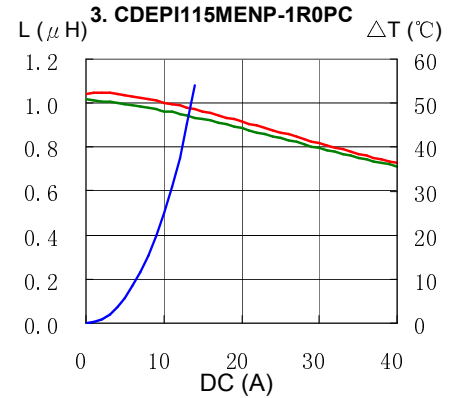
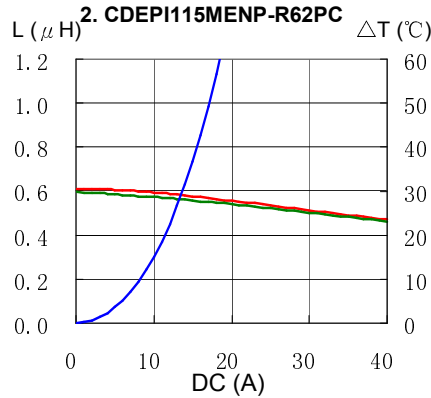
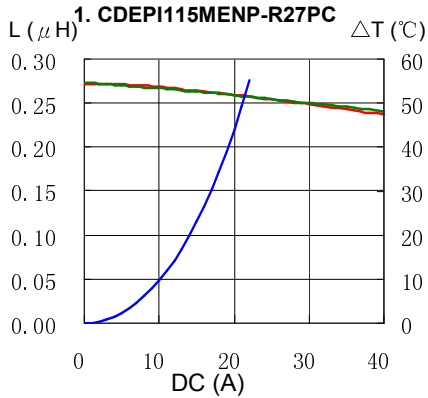
SMD Power Inductor CDEPI115ME



Under Development

Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



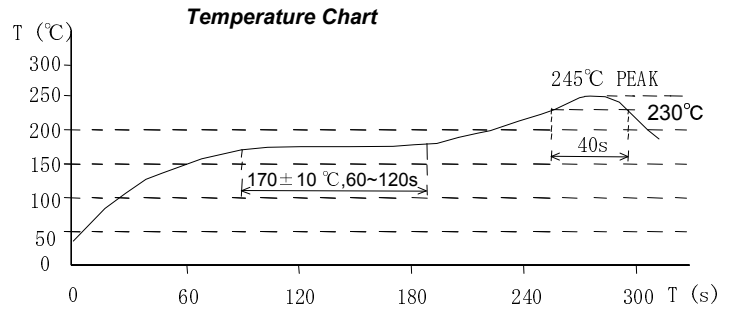
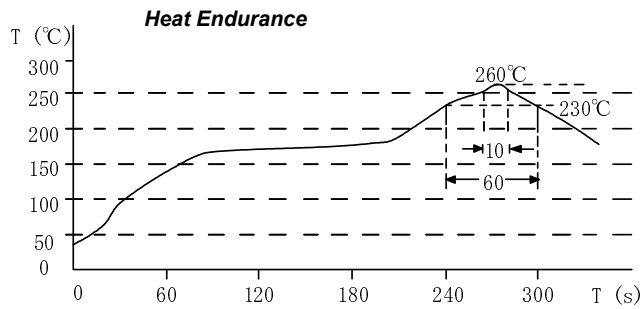
SMD Power Inductor CDEPI115ME



 **sumida**

Under Development

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

Oberzell

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