

# SMD Power Inductor CDRH7D58R/A



**sumida**

*Under Development*



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.2 × 7.2 × 6.0 mm Max.
- Product weight: 1.0g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C~+125°C (excluding coil's self temperature rise)
- Storage temperature range: -40°C~+85°C
- Solder reflow temperature: 260 °C peak.

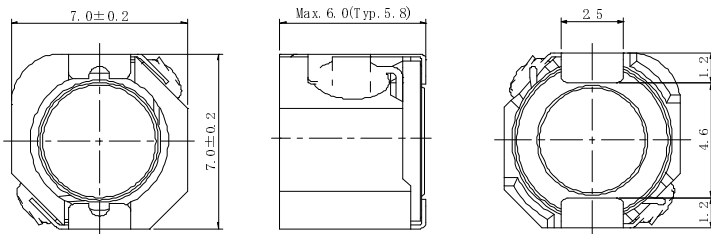
## Packaging

- Carrier tape and reel packaging

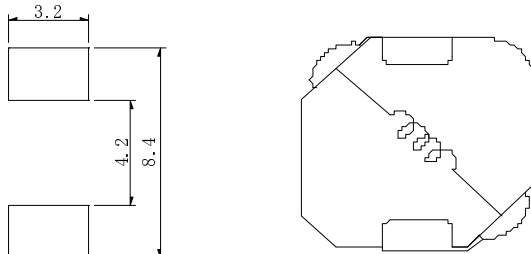
## Applications

- Automotive.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



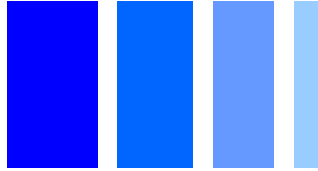
## Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN]※1	D.C.R. (m Ω) [Max.](at 20°C)	Rated Current(A) (at125°C) ※2
CDRH7D58R/ANP-100MC	A	10 μ H ± 20%	38(31)	1.82
CDRH7D58R/ANP-150MC	B	15 μ H ± 20%	48(39)	1.53
CDRH7D58R/ANP-220MC	C	22 μ H ± 20%	96(77)	1.28
CDRH7D58R/ANP-330MC	D	33 μ H ± 20%	158(127)	1.08
CDRH7D58R/ANP-470MC	E	47 μ H ± 20%	195(156)	0.86
CDRH7D58R/ANP-680MC	F	68 μ H ± 20%	275(220)	0.73
CDRH7D58R/ANP-101MC	G	100 μ H ± 20%	487(390)	0.58
CDRH7D58R/ANP-151MC	H	150 μ H ± 20%	612(490)	0.47
CDRH7D58R/ANP-221MC	I	220 μ H ± 20%	787(630)	0.38

※1 Measuring frequency inductance at 100kHz.

※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when Δt=30°C, whichever is lower (Ta=20°C).

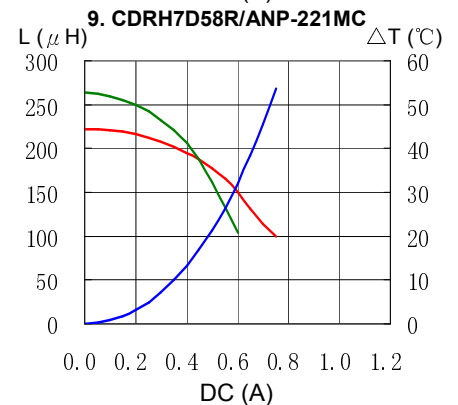
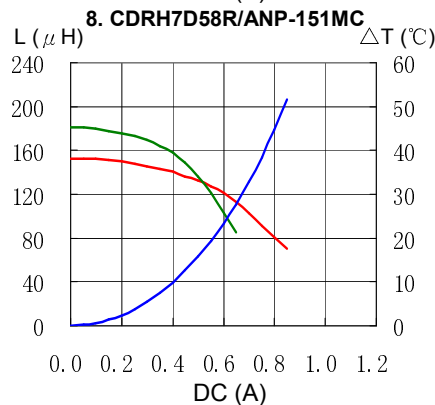
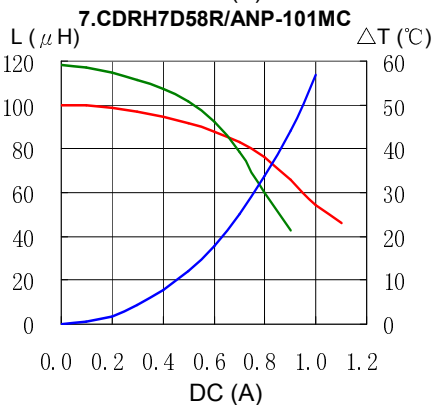
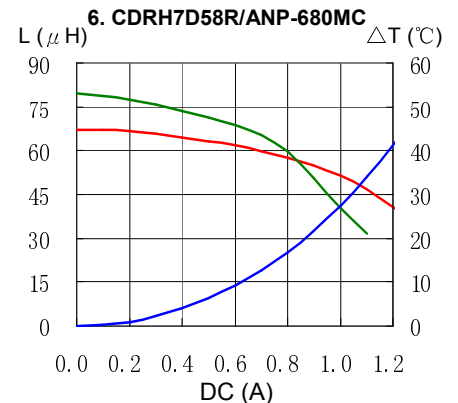
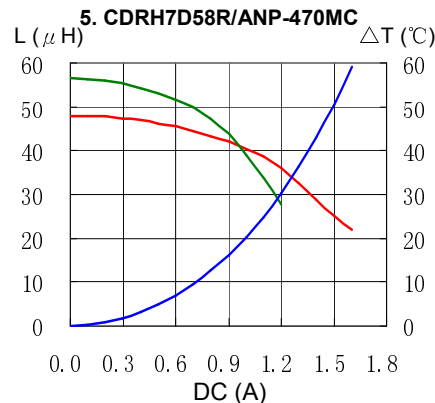
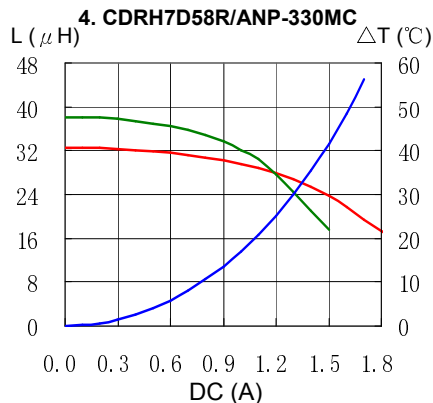
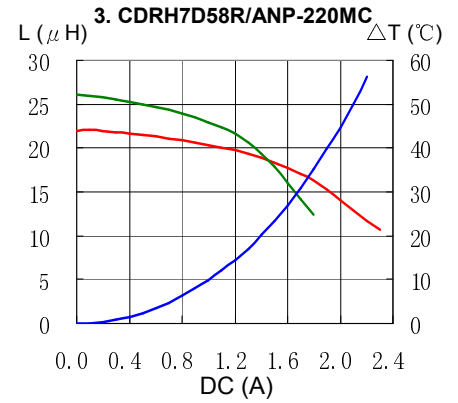
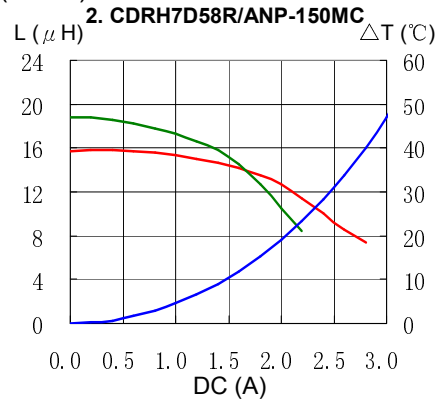
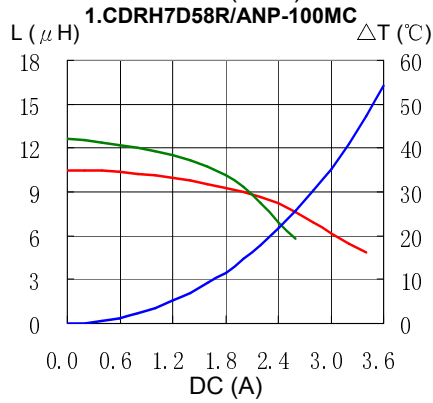
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## Saturation Current & Temperature Rise Graph

— L (20°C)    — L (125°C)    — ΔT



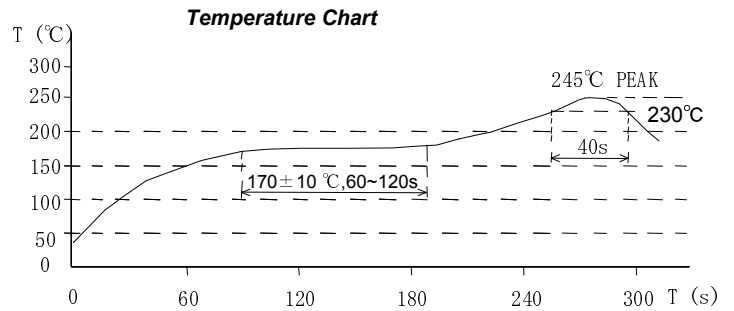
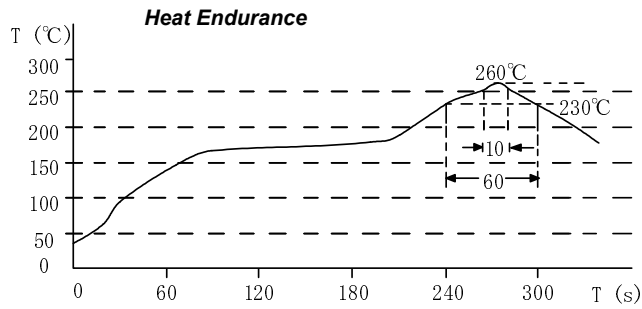
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## Solder Reflow Condition



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