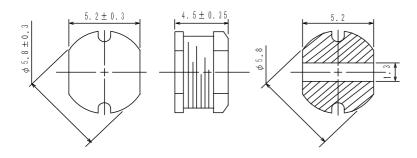




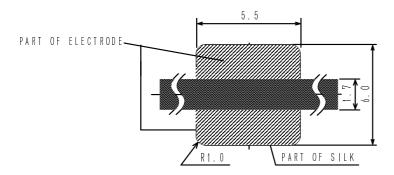


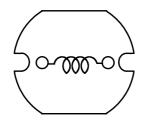


Dimension - [mm]



Land pattern and Schematics - [mm]





Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.1 × 5.5 × 4.85mm Max.
- Product weight 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

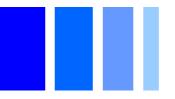
Packaging

- · Carrier tape and reel packaging.
- 13.0"diameter reel
- 1500pcs per reel

Applications

• Ideally used in Mobilephone, PDA, MP3, DSC/DVC, portable DVD etc as DC-DC Converter inductors.

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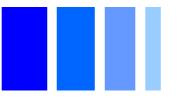
Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R (Ω) [Max.] (at 20°C)	Rated Current (A) ※2
CD54NP-100MC	100	10±20%	0.10	1.44
CD54NP-120MC	120	12±20%	0.12	1.40
CD54NP-150MC	150	15±20%	0.14	1.30
CD54NP-180MC	180	18±20%	0.15	1.23
CD54NP-220MC	220	22±20%	0.18	1.11
CD54NP-270MC	270	27±20%	0.20	0.97
CD54NP-330LC	330	33±15%	0.23	0.88
CD54NP-390LC	390	39±15%	0.32	0.80
CD54NP-470LC	470	47 ± 15%	0.37	0.72
CD54NP-560KC	560	56±10%	0.42	0.68
CD54NP-680KC	680	68±10%	0.46	0.61
CD54NP-820KC	820	82±10%	0.60	0.58
CD54NP-101KC	101	100±10%	0.70	0.52
CD54NP-121KC	121	120±10%	0.93	0.48
CD54NP-151KC	151	150±10%	1.10	0.40
CD54NP-181KC	181	180±10%	1.38	0.38
CD54NP-221KC	221	220±10%	1.57	0.35

[%] 1: Inductance measuring frequency: 10 μ H \sim 82 μ H $\,$, $\,$ at 2.52MHz. 100 μ H \sim 220 μ H $\,$, at 1 kHz.

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[&]amp;2: Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\triangle t = 40^{\circ}C$, whichever is lower (Ta=20 $^{\circ}C$).

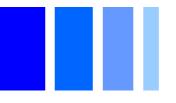




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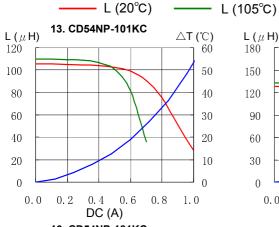
Saturation Current & Temperature Rise Graph - L (20°C) — L (105°C) 2. CD54NP-120MC 1. CD54NP-100MC 3. CD54NP-150MC L (μH) $\triangle T$ (°C) L (μ H) △T (°C) L (μH) △T (°C) 1.5 2.0 2.5 3.0 0.0 0.5 1.0 1.5 2.0 2.5 $0. \ 0 \ 0.4 \ 0.8 \ 1.2 \ 1.6 \ 2.0 \ 2.4$ DC (A) DC (A) DC (A) 4. CD54NP-180MC 5. CD54NP-220MC 6. CD54NP-270MC L (μH) $\triangle T$ (°C) L (μH) △T (°C) L (μH) $\triangle T$ (°C) 0.0 0.3 0.6 0.9 1.2 1.5 1.8 0.0 0.4 0.8 1.2 1.6 2.0 0.0 0.4 0.8 1.2 1.6 2.0 DC (A) DC (A) DC (A) 7. CD54NP-330LC 8. CD54NP-390LC 9. CD54NP-470LC L (μH) L (μH) $\triangle T$ (°C) $\triangle T$ (°C) L (μ H) △T (°C) 0.0 0.4 0.8 1.2 1.6 0.0 0.3 0.6 0.9 1.2 1.5 0.0 0.3 0.6 0.9 1.2 1.5 DC (A) DC (A) DC (A) 10. CD54NP-560KC 11. CD54NP-680KC 12. CD54NP-820KC L (μH) △T (°C) L (μH) $\triangle T$ (°C) L (μH) $\triangle T$ (°C) 0.0 0.2 0.4 0.6 0.8 1.0 1.2 0.0 0.2 0.4 0.6 0.8 1.0 1.2 0.2 0.4 0.0 0.6 0.8 1.0 DC (A) DC (A) DC (A)

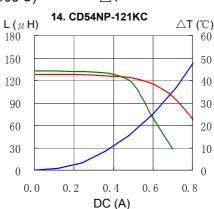
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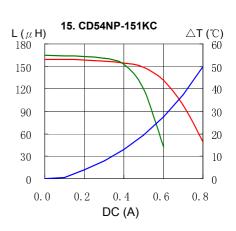


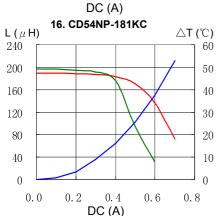


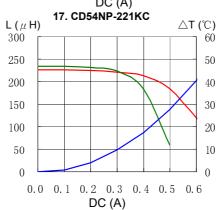
Saturation Current & Temperature Rise Graph



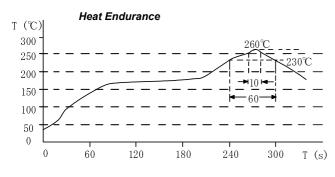


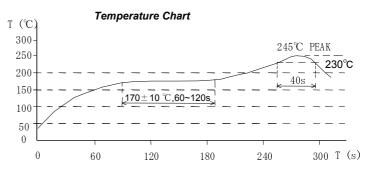












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