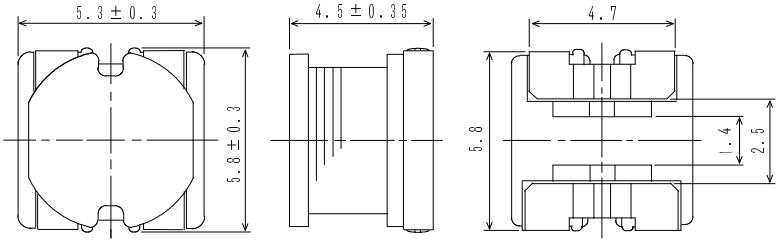
# SMD Power Inductor
## CR54

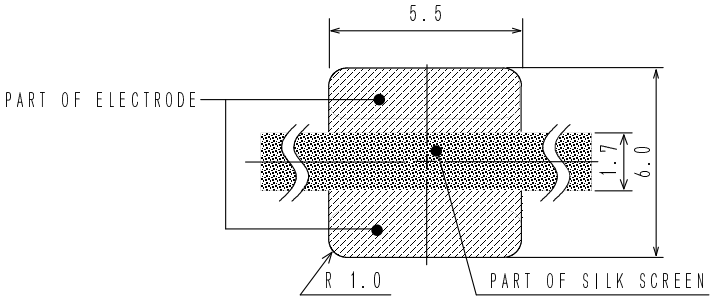
RoHS

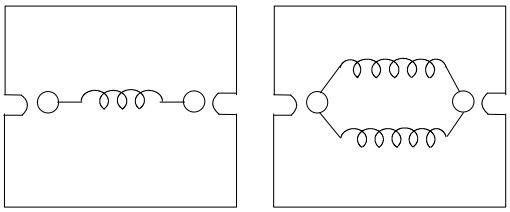
Halogen Free

### Dimension - [mm]




### Land pattern and Schematics - [mm]



10μH～220μH　　2.2μH～8.5μH

### Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L×W×H: 6.1×5.6×4.85 mm Max.
- Product weight: 0.41g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

### Environmental Data
- Operating temperature range: -40℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

### Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 1500pcs per reel

### Applications
- Ideally used in A/V equipment, LCD TV, DSC/DVC, Game Machine, DVC, HDD, Notebook PC, etc as DC-DC converter inductors.



Revised: 23-Aug-12

# SMD Power Inductor
## CR54

### Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [ within ] ※1 | D.C.R. (Ω) [Max.] (at 20℃) | Rated Current (A)※2 |
|---|---|---|---|---|
| CR54NP-2R2MC | 2R2 | 2.2±20 % | 23.4m | 3.84 |
| CR54NP-2R7MC | 2R7 | 2.7±20 % | 26.0m | 3.44 |
| CR54NP-3R3MC | 3R3 | 3.3±20 % | 28.6m | 3.20 |
| CR54NP-3R9MC | 3R9 | 3.9±20 % | 35.1m | 3.00 |
| CR54NP-4R4MC | 4R4 | 4.4±20 % | 39.0m | 2.80 |
| CR54NP-5R0MC | 5R0 | 5.0±20 % | 44.2m | 2.60 |
| CR54NP-5R6MC | 5R6 | 5.6±20 % | 49.4m | 2.48 |
| CR54NP-6R4MC | 6R4 | 6.4±20 % | 52.0m | 2.20 |
| CR54NP-7R6MC | 7R6 | 7.6±20 % | 62.4m | 2.08 |
| CR54NP-8R5MC | 8R5 | 8.5±20 % | 67.6m | 1.84 |
| CR54NP-100MC | 100 | 10±20 % | 0.10 | 1.44 |
| CR54NP-120MC | 120 | 12±20 % | 0.12 | 1.40 |
| CR54NP-150MC | 150 | 15±20 % | 0.14 | 1.30 |
| CR54NP-180MC | 180 | 18±20 % | 0.15 | 1.23 |
| CR54NP-220MC | 220 | 22±20 % | 0.18 | 1.11 |
| CR54NP-270MC | 270 | 27±20 % | 0.20 | 0.97 |
| CR54NP-330LC | 330 | 33±15 % | 0.23 | 0.88 |
| CR54NP-390LC | 390 | 39±15 % | 0.32 | 0.80 |
| CR54NP-470LC | 470 | 47±15 % | 0.37 | 0.72 |
| CR54NP-560KC | 560 | 56±10 % | 0.42 | 0.68 |
| CR54NP-680KC | 680 | 68±10 % | 0.46 | 0.61 |
| CR54NP-820KC | 820 | 82±10 % | 0.60 | 0.58 |
| CR54NP-101KC | 101 | 100±10 % | 0.70 | 0.52 |
| CR54NP-121KC | 121 | 120±10 % | 0.93 | 0.48 |
| CR54NP-151KC | 151 | 150±10 % | 1.10 | 0.40 |
| CR54NP-181KC | 181 | 180±10 % | 1.38 | 0.38 |
| CR54NP-221KC | 221 | 220±10 % | 1.57 | 0.35 |

※1.Inductance measuring frequency: 2.2μH ~ 8.5μH ; at 7.96 MHz
10μH ~ 82μH ; at 2.52 MHz
100μH ~ 220μH ; at 1 kHz

※2. Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when △t=40℃, whichever is lower (Ta=20℃).

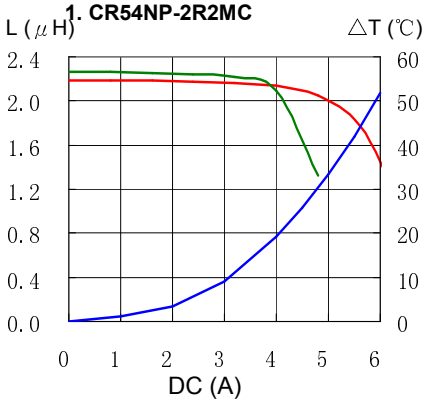


Revised: 23-Aug-12

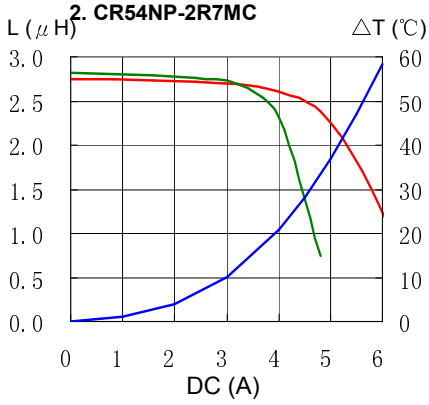
## Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

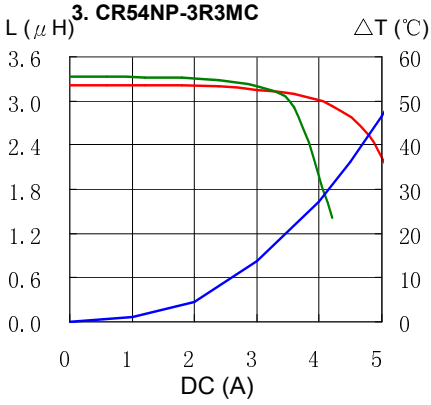
### 1. CR54NP-2R2MC



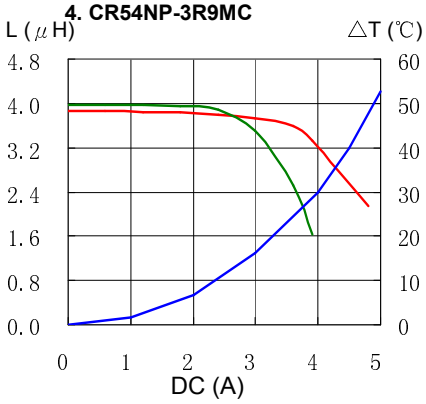

### 2. CR54NP-2R7MC



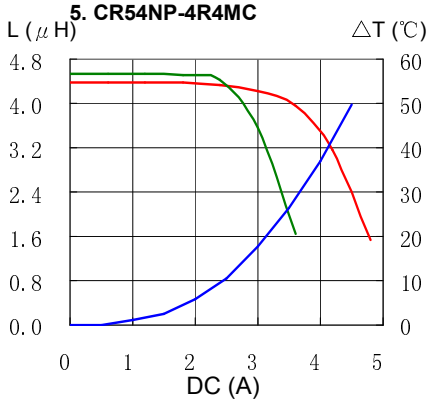

### 3. CR54NP-3R3MC



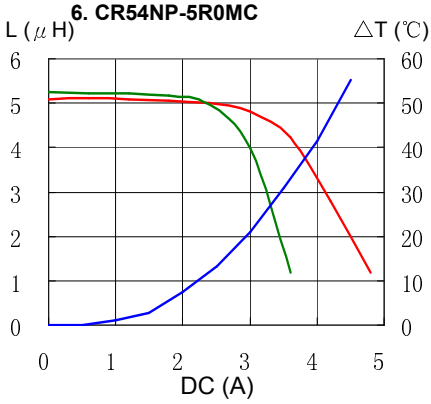

### 4. CR54NP-3R9MC



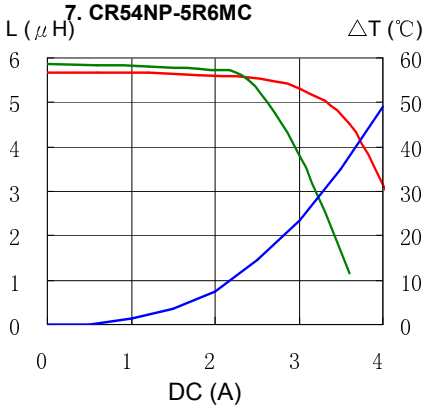

### 5. CR54NP-4R4MC



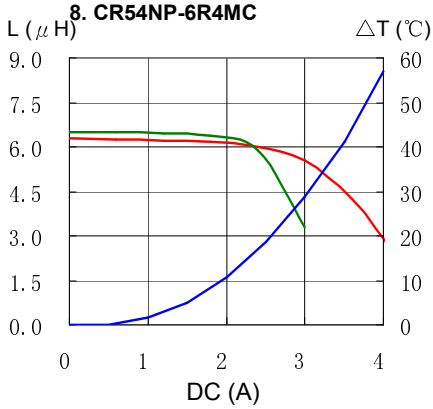

### 6. CR54NP-5R0MC



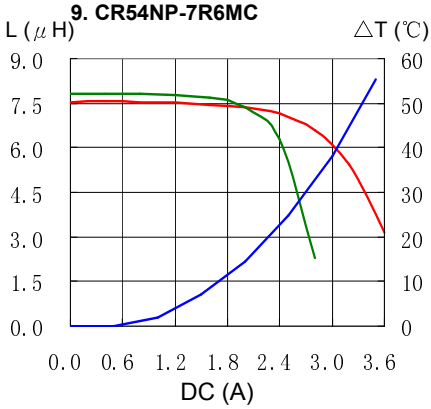

### 7. CR54NP-5R6MC



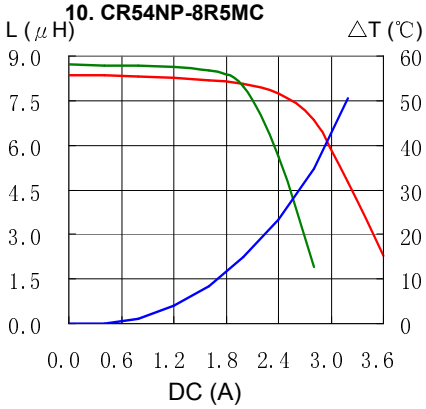

### 8. CR54NP-6R4MC



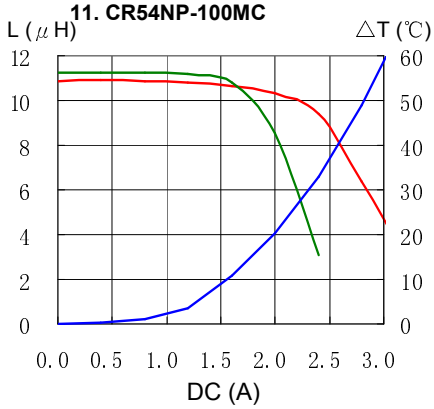

### 9. CR54NP-7R6MC



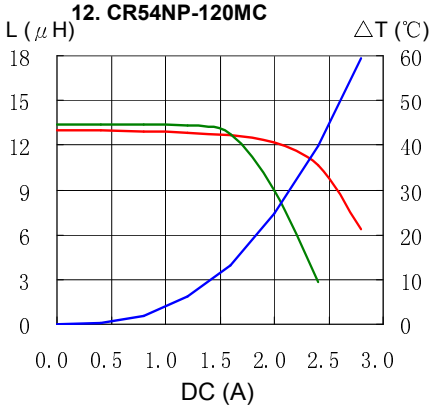

### 10. CR54NP-8R5MC




### 11. CR54NP-100MC



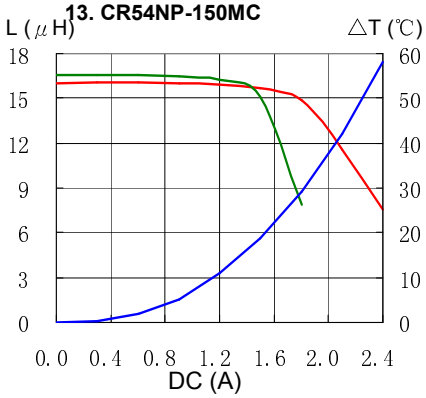

### 12. CR54NP-120MC



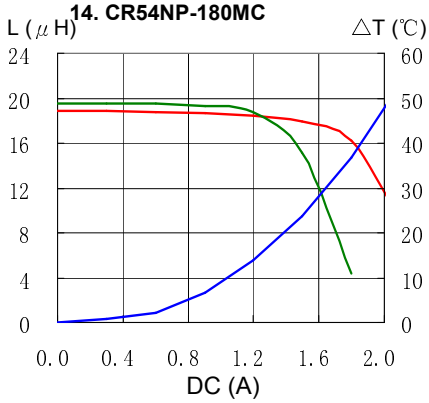
## Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

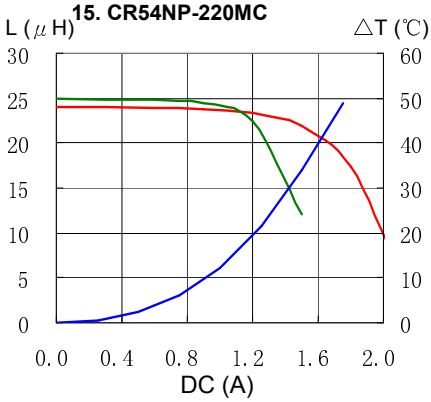
13. CR54NP-150MC



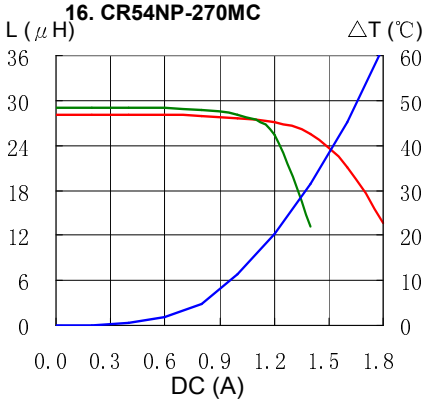

14. CR54NP-180MC



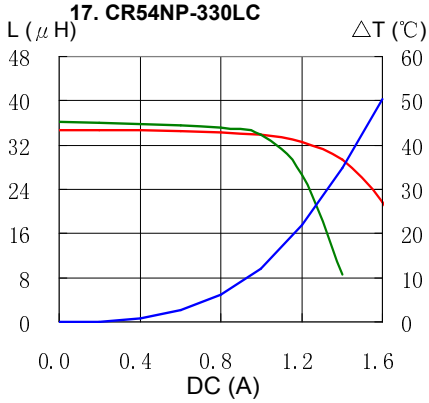

15. CR54NP-220MC



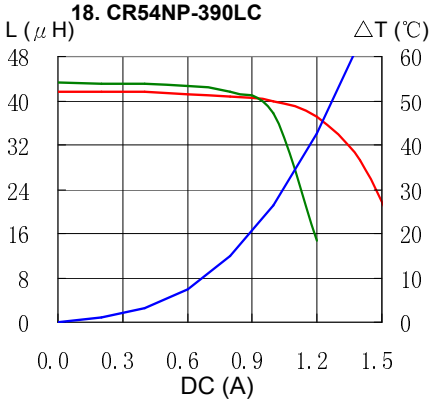

16. CR54NP-270MC



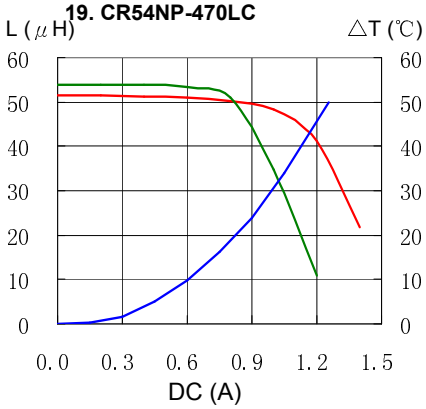

17. CR54NP-330LC



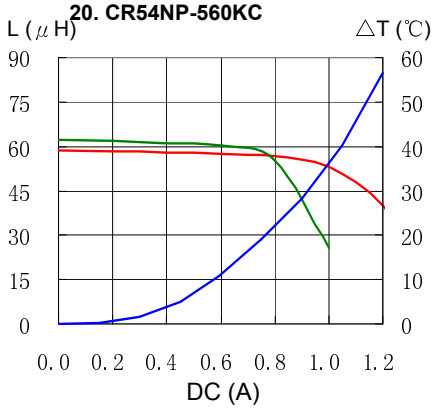

18. CR54NP-390LC



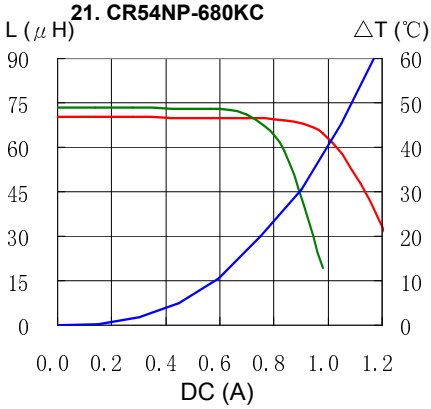

19. CR54NP-470LC



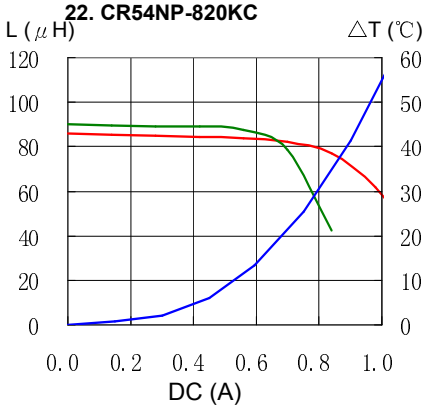

20. CR54NP-560KC



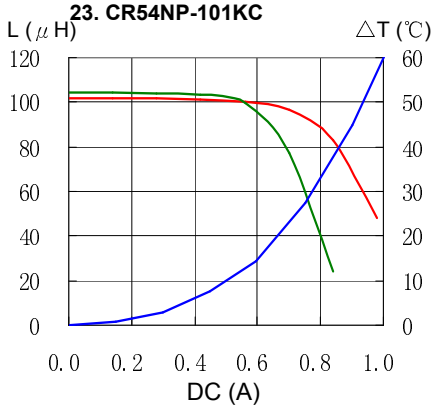

21. CR54NP-680KC



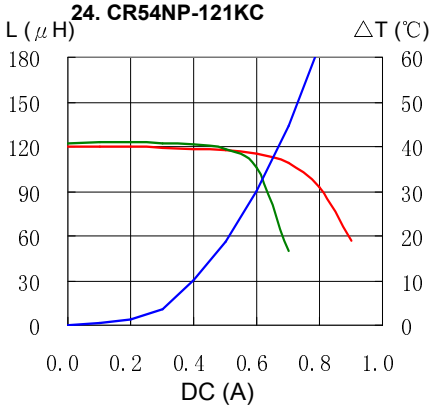

22. CR54NP-820KC



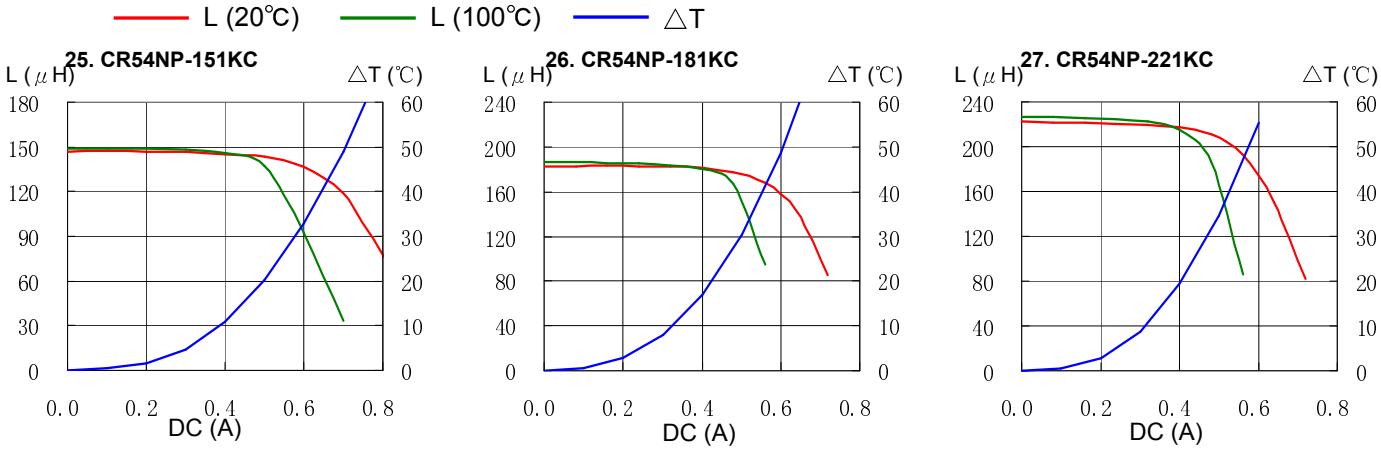

23. CR54NP-101KC



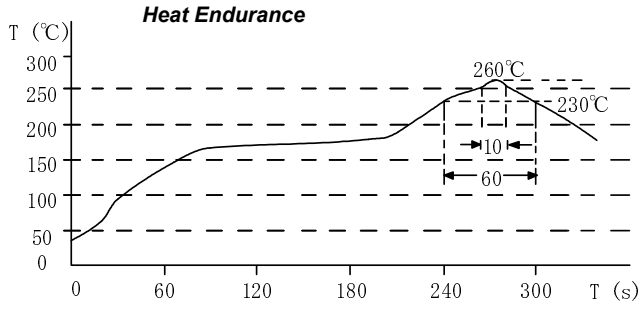

24. CR54NP-121KC

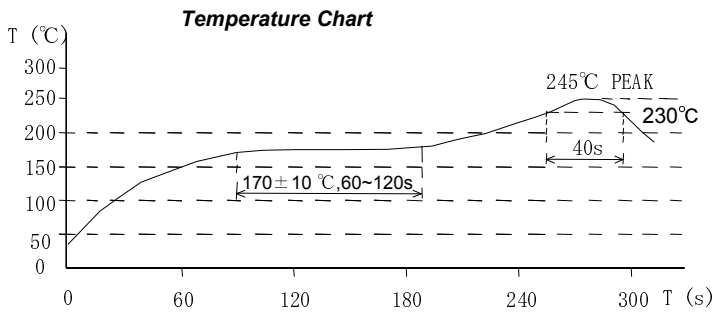


## Saturation Current & Temperature Rise Graph




## Solder Reflow Condition

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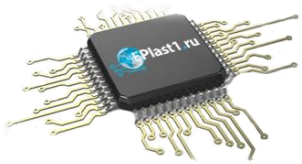
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
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