

SMT COMMON MODE CHOKES

SLIC Series

Ruggedized



PulseR
Ruggedized Solutions

- Ⓡ Enhanced SLIC platform
- Ⓡ Military/Aerospace Applications
- Ⓡ Dielectric strength: 1500 VRMS
- Ⓡ Designed for DC/DC converters
- Ⓡ Storage Temperature: -55°C to +130°C
- Ⓡ Lead Finish: Sn63/Pb37
- Ⓡ Moisture Sensitivity Level (MSL): 1

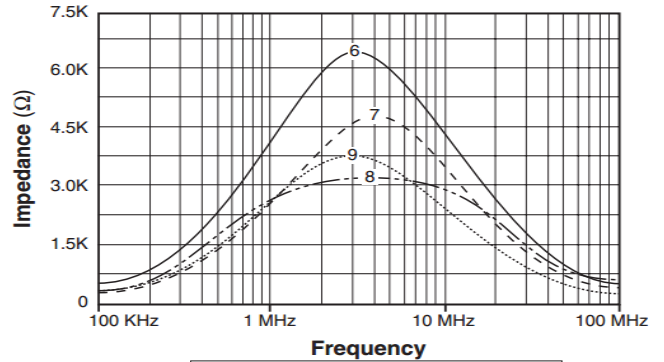
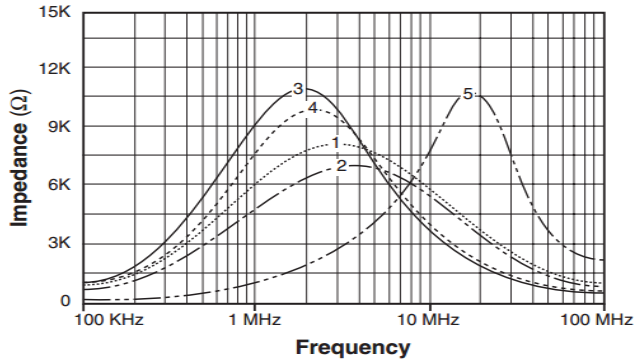
Electrical Specifications 25°C — Operating Temperature -55°C to +130°C

| Part Number | Inductance per Winding (uH ±35%) | I _{rated} (A) | DCR per winding (mΩ MAX) | Curve (see # below) | Package | Weight (grams) | Quantity in Tube | Quantity in Reel |
|-------------|----------------------------------|------------------------|--------------------------|---------------------|-----------|----------------|------------------|------------------|
| PL8200 | 470 | 14.0 | 8 | 9 | Big Foot | 14.8 | 15 | 75 |
| PL8201 | 630 | 11.6 | 10 | 7 | Big Foot | 14.3 | 20 | 75 |
| PL8202 | 810 | 9.70 | 14 | 6 | Big Foot | 13.5 | 20 | 75 |
| PL8203 | 534 | 7.20 | 15 | 8 | HCCI-68 | 7.7 | 15 | 100 |
| PL8204 | 590 | 5.60 | 21 | 7 | LCCI-50 | 5.2 | 30 | 200 |
| PL8205 | 768 | 4.70 | 40 | 6 | LCCI-50 | 4.9 | 30 | 200 |
| PL8206 | 225 | 3.30 | 60 | 5 | LCCI-50 | 4.7 | 30 | 200 |
| PL8207 | 1320 | 3.30 | 60 | 4 | LCCI-50 | 4.6 | 30 | 200 |
| PL8208 | 1470 | 2.80 | 80 | 3 | LCCI-50 | 4.3 | 30 | 200 |
| PL8209 | 880 | 1.63 | 110 | 2 | Polecat | 1.5 | 40 | 500 |
| PL8210 | 1170 | 1.22 | 200 | 1 | Polecat | 1.4 | 40 | 500 |
| PL8211 | 10040 | 1.4 | 210 | 10 | LCCI-50 | 4.5 | 20 | 200 |
| PL8212 | 1125 | 1.8 | 55 | 11 | Polecat | 1.55 | 40 | 500 |
| PL8213 | 800 | 3 | 27 | 12 | Polecat | 2.46 | 40 | 300 |
| PL8214 | 382.5 | 3.3 | 18 | 13 | Polecat | 1.71 | 40 | 200 |
| PL8215 | 536 | 3.8 | 17.1 | 14 | LCCI-37 | 2.52 | 30 | 200 |
| PL8216 | 280 | 4 | 13.2 | 15 | Polecat | 1.6 | 40 | 500 |
| PL8217 | 486 | 4.2 | 16 | 16 | LCCI-44LP | 2.99 | 40 | 300 |
| PL8218 | 130* | 5 | 6.75 | 17 | Polecat | 1.6 | 40 | 500 |
| PL8219 | 96* | 6 | 4.3 | 18 | Polecat | 1.7 | 40 | 500 |
| PL8220 | 400 | 6 | 9.4 | 19 | LCCI-44LP | 3.53 | 40 | 200 |
| PL8221 | 61* | 7 | 2.9 | 20 | Polecat | 1.73 | 40 | 500 |
| PL8222 | 484 | 8 | 7.7 | 21 | LCCI-50 | 5.31 | 30 | 200 |
| PL8223 | 1030 | 9 | 9.75 | 22 | HCCI-80 | 14.63 | 20 | 75 |
| PL8224 | 215 | 10 | 3.75 | 23 | Makeni | 6.26 | 25 | 150 |

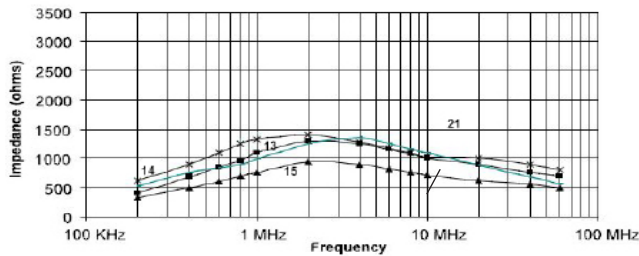
Notes:

1. The current rating (I_{rated}) is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 55°C with 50LFM forced cooling.
2. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
4. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL8200 becomes PL8200T.)
5. To order RoHS compliant parts, add "NL" to the part number (i.e. PL8200 becomes PL8200NL and PL8200T becomes PL8200NLT)

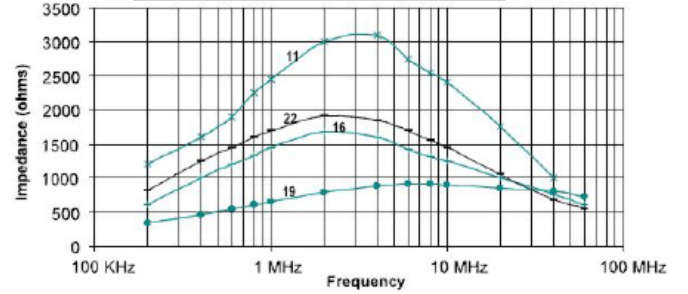
Impedance Curves



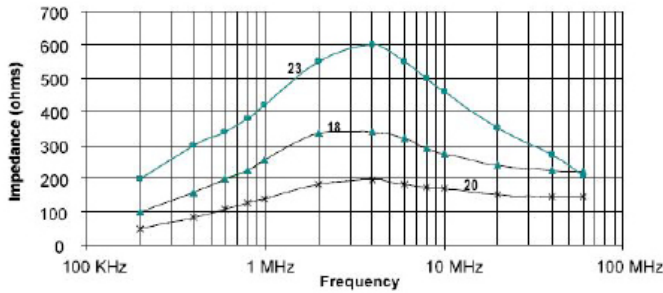
PL8206, PL8207, PL8208, PL8209, PL8210



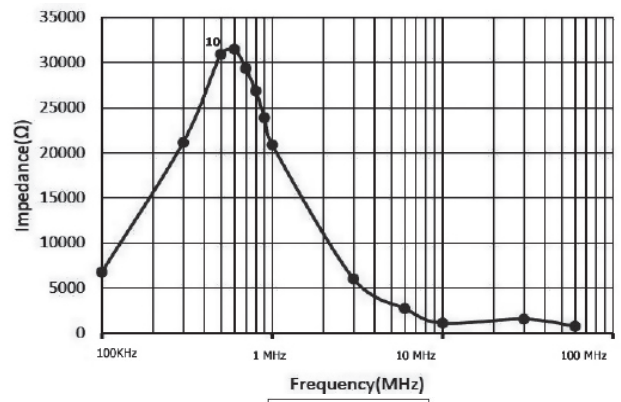
PL8201, PL8202, PL8203, PL8204, PL8205



PL8214, PL8222, PL8216, PL8215

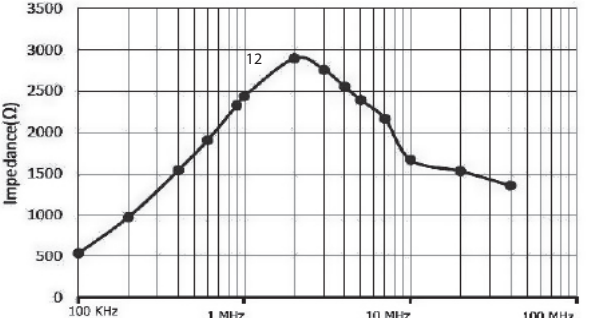
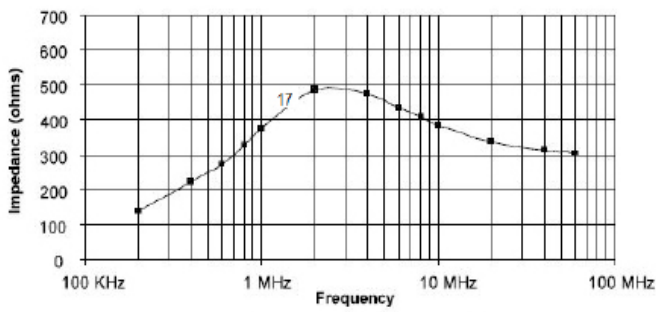


PL8223, PL8220, PL8217, PL8212



PL8224, PL8219, PL8221

PL8211



PL8218

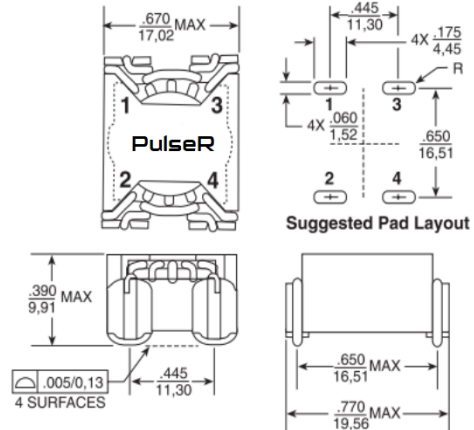
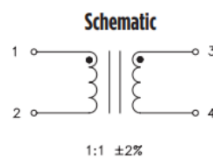
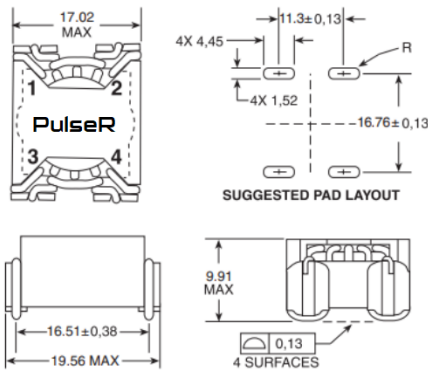
PL8213

Mechanicals

Schematics

LCCI-50, PL8222 & PL8225

LCCI-50

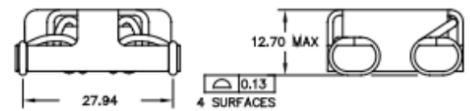
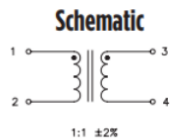
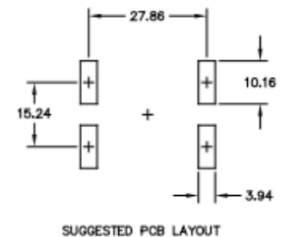
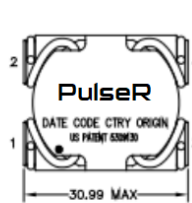
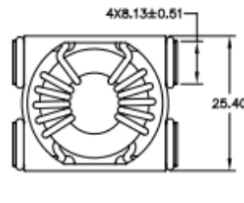
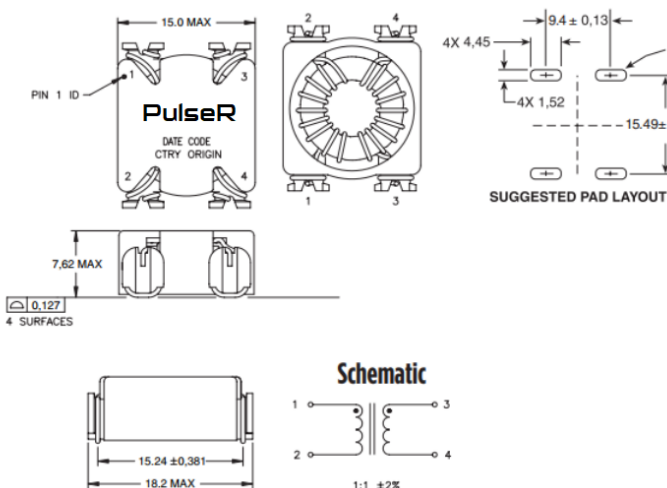


Mechanicals

Schematics

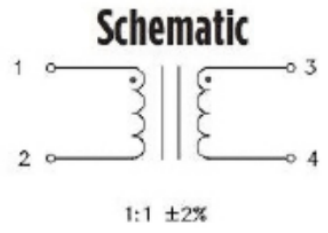
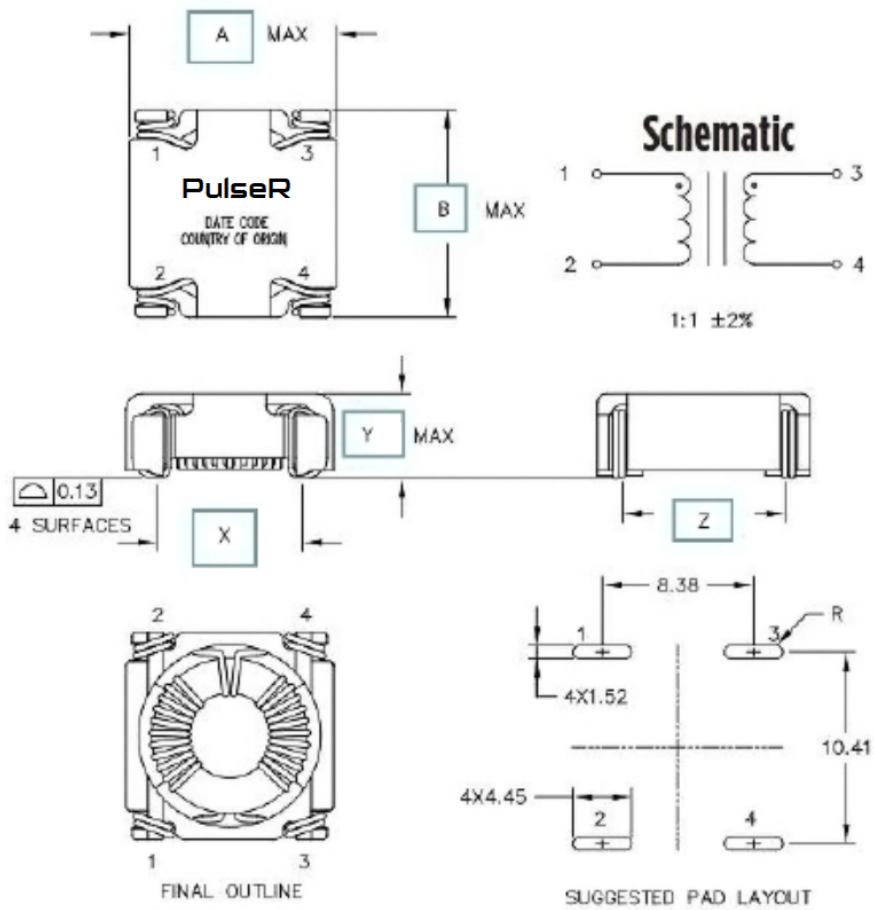
LCCI-44LP

HCCI-80, PL8223



PoleCat - PL8212, PL8213, PL8214, PL8216, PL8218, PL8219, PL8221

Mechanicals



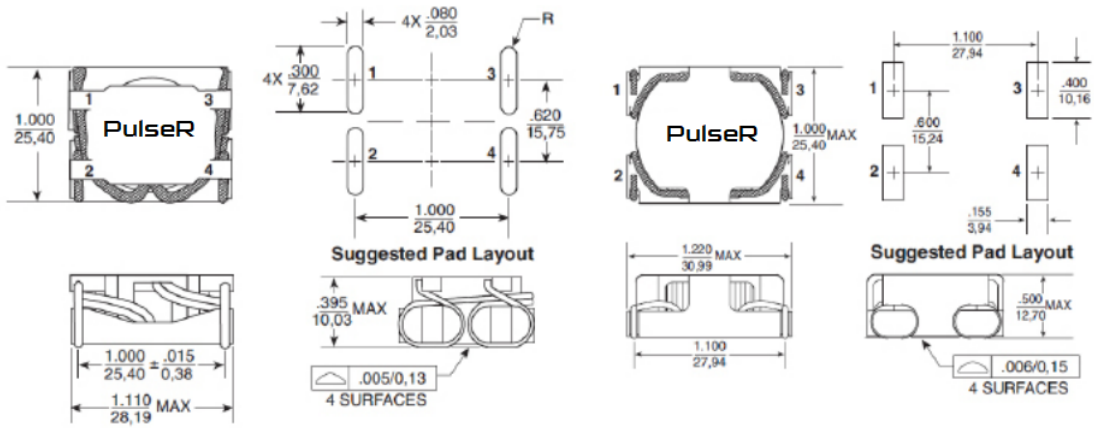
| PoleCat Dimensions | | | | | |
|--------------------|------|------|-----|------|-----|
| Part number | A | B | X | Y | Z |
| PL8212 | 12.7 | 13.2 | 8.4 | 10.4 | 5.6 |
| PL8213 | 13.0 | 13.0 | 8.4 | 10.4 | 8.6 |
| PL8214 | 13.0 | 13.0 | 8.4 | 10.4 | 5.6 |
| PL8216 | 13.0 | 13.0 | 8.4 | 10.4 | 5.6 |
| PL8218 | 13.2 | 13.2 | 8.6 | 10.7 | 5.6 |
| PL8219 | 13.2 | 13.2 | 8.6 | 10.7 | 5.6 |
| PL8221 | 13.5 | 13.5 | 8.6 | 10.7 | 5.6 |

Mechanicals

Schematics

HCCI-68

Big Foot



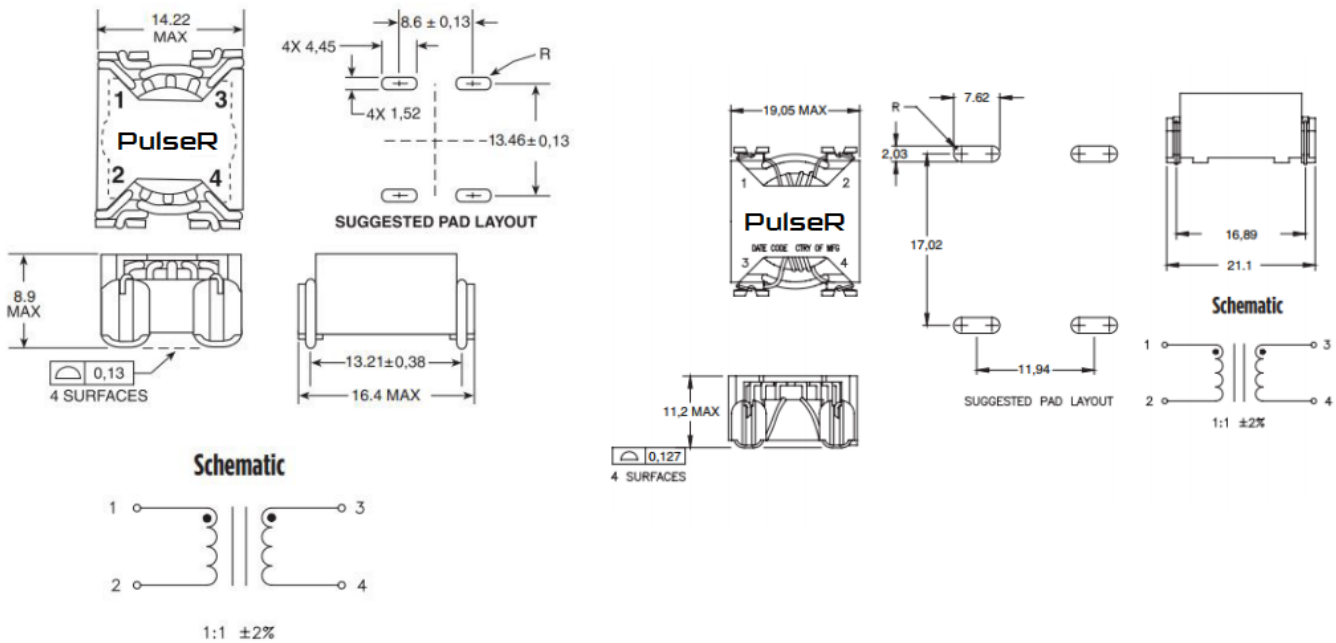
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.005}{0,13}$

Mechanicals

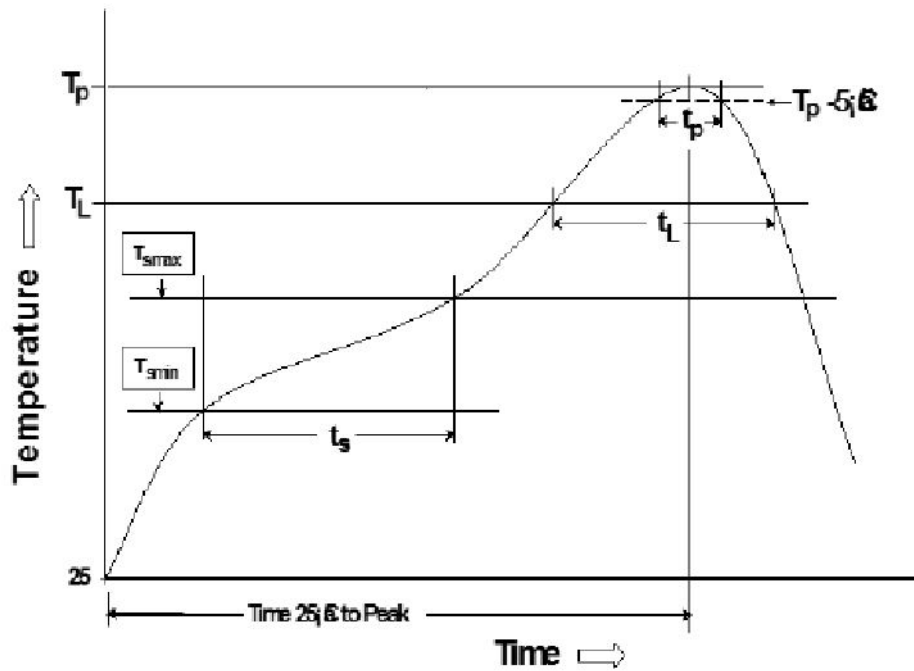
Schematics

LCCI-37

Makeni



Transceiver Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



| T_{SMIN} (°C) | T_{SMAX} (°C) | T_L (°C) | T_P (°C MAX) | t_s (s) | t_L (s) | t_p (s MAX) | Ramp-up rate (T_L to T_P) | Ramp-down rate (T_P to T_L) | Time 25°C to peak temperature (s MAX) |
|--------------------|--------------------|---------------|-------------------|--------------|--------------|------------------|------------------------------------|--------------------------------------|---|
| 100 | 150 | 183 | 225 | 60-120 | 60-150 | 20 | 3°C/s MAX | 6°C/s MAX | 360 |

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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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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