



Standard SMD LED PLCC-2



DESCRIPTION

These devices have been designed to meet the increasing demand for surface mounting technology.

The package of the VLM.310. is the PLCC-2.

It consists of a lead frame which is embedded in a white thermoplast. The reflector inside this package is filled up with clear epoxy.

PRODUCT GROUP AND PACKAGE DATA

- Product group: LED
- Package: SMD PLCC-2
- Product series: standard
- Angle of half intensity: $\pm 60^\circ$

FEATURES

- SMD LEDs with exceptional brightness
- Luminous intensity categorized
- Compatible with automatic placement equipment
- EIA and ICE standard package
- Compatible with infrared, vapor phase and wave solder processes according to CECC 00802 and J-STD-020
- Available in 8 mm tape
- Low profile package
- Non-diffused lens: excellent for coupling to light pipes and backlighting
- Low power consumption
- Luminous intensity ratio in one packaging unit $I_{Vmax.}/I_{Vmin.} \leq 1.6$
- Preconditioning: acc. to JEDEC level 2a
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



APPLICATIONS

- Automotive: backlighting in dashboards, and switches
- Telecommunication: indicator and backlighting in telephone and fax
- Indicator and backlight for audio and video equipment
- Indicator and backlight in office equipment
- Flat backlight for LCDs, switches, and symbols
- General use

PARTS TABLE

| PART | COLOR | LUMINOUS INTENSITY (mcd) | | | at I _F (mA) | WAVELENGTH (nm) | | | FORWARD VOLTAGE (V) | | | at I _F (mA) | TECHNOLOGY |
|---------------|-------------|--------------------------|------|------|------------------------|-----------------|------|------|---------------------|------|------|------------------------|--------------|
| | | MIN. | TYP. | MAX. | | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | | |
| VLMH3100-GS08 | Amber | 2.8 | 10 | - | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMH3100-GS18 | Amber | 2.8 | 10 | - | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMH3101-GS08 | Amber | 4.5 | - | 11.2 | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMH3101-GS18 | Amber | 4.5 | - | 11.2 | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMH3102-GS08 | Amber | 7.1 | - | 18 | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMH3102-GS18 | Amber | 7.1 | - | 18 | 10 | 612 | - | 625 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMO3100-GS08 | Soft orange | 2.8 | 8 | - | 10 | 598 | - | 611 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMO3100-GS18 | Soft orange | 2.8 | 8 | - | 10 | 598 | - | 611 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMO3101-GS08 | Soft orange | 4.5 | - | 11.2 | 10 | 598 | - | 611 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMO3101-GS18 | Soft orange | 4.5 | - | 11.2 | 10 | 598 | - | 611 | - | 2 | 2.8 | 20 | GaAsP on GaP |
| VLMY3100-GS08 | Yellow | 2.8 | 10 | | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |
| VLMY3100-GS18 | Yellow | 2.8 | 10 | | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |
| VLMY3101-GS08 | Yellow | 4.5 | - | 11.2 | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |
| VLMY3101-GS18 | Yellow | 4.5 | - | 11.2 | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |



| PARTS TABLE | | | | | | | | | | | | | |
|---------------|------------|--------------------------|------|------|------------------------|-----------------|------|------|---------------------|------|------|------------------------|--------------|
| PART | COLOR | LUMINOUS INTENSITY (mcd) | | | at I _F (mA) | WAVELENGTH (nm) | | | FORWARD VOLTAGE (V) | | | at I _F (mA) | TECHNOLOGY |
| | | MIN. | TYP. | MAX. | | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | | |
| VLMY3102-GS08 | Yellow | 7.1 | - | 18 | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |
| VLMY3102-GS18 | Yellow | 7.1 | - | 18 | 10 | 581 | - | 594 | - | 2.1 | 2.8 | 20 | GaAsP on GaP |
| VLMG3100-GS08 | Green | 4.5 | 16 | - | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMG3100-GS18 | Green | 4.5 | 16 | - | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMG3102-GS08 | Green | 11.2 | - | 18 | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMG3102-GS18 | Green | 11.2 | - | 18 | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMG3105-GS08 | Green | 7.1 | - | 18 | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMG3105-GS18 | Green | 7.1 | - | 18 | 10 | 562 | - | 575 | - | 2.2 | 2.8 | 20 | GaP on GaP |
| VLMP3100-GS08 | Pure green | 1.12 | 4 | - | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3100-GS18 | Pure green | 1.12 | 4 | - | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3101-GS08 | Pure green | 1.8 | - | 4.5 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3101-GS18 | Pure green | 1.8 | - | 4.5 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3107-GS08 | Pure green | 2.8 | - | 7.1 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3107-GS18 | Pure green | 2.8 | - | 7.1 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3102-GS08 | Pure green | 2.8 | - | 5.6 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |
| VLMP3102-GS18 | Pure green | 2.8 | - | 5.6 | 10 | 555 | - | 565 | - | 2.1 | 2.8 | 20 | GaP on GaP |

| ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified) VLMG310., VLMH310., VLMO310., VLMP310., VLMY310. | | | | |
|---|--|-------------------|---------------|------|
| PARAMETER | TEST CONDITION | SYMBOL | VALUE | UNIT |
| Reverse voltage | | V _R | 6 | V |
| DC forward current | T _{amb} ≤ 60 °C | I _F | 30 | mA |
| Surge forward current | t _p ≤ 10 ∞s | I _{FSM} | 0.5 | A |
| Power dissipation | T _{amb} ≤ 60 °C | P _V | 100 | mW |
| Junction temperature | | T _J | 100 | °C |
| Operating temperature range | | T _{amb} | - 40 to + 100 | °C |
| Storage temperature range | | T _{stg} | - 40 to + 100 | °C |
| Soldering temperature | t ≤ 5 s | T _{sd} | 260 | °C |
| Thermal resistance junction/ambient | Mounted on PC board (pad size > 16 mm ²) | R _{thJA} | 400 | K/W |

| OPTICAL AND ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified) VLMH310., AMBER | | | | | | | |
|--|---------------------------------|----------|----------------|------|------|------|------|
| PARAMETER | TEST CONDITION | PART | SYMBOL | MIN. | TYP. | MAX. | UNIT |
| Luminous intensity ⁽¹⁾ | I _F = 10 mA | VLMH3100 | I _V | 2.8 | 10 | - | mcd |
| | | VLMH3101 | I _V | 4.5 | - | 11.2 | mcd |
| | | VLMH3102 | I _V | 7.1 | - | 18 | mcd |
| Dominant wavelength | I _F = 10 mA | | λ _d | 612 | - | 625 | nm |
| Peak wavelength | I _F = 10 mA | | λ _p | - | 635 | - | nm |
| Angle of half intensity | I _F = 10 mA | | φ | - | ± 60 | - | deg |
| Forward voltage | I _F = 20 mA | | V _F | - | 2 | 2.8 | V |
| Reverse voltage | I _R = 10 μA | | V _R | 6 | 15 | - | V |
| Junction capacitance | V _R = 0 V, f = 1 MHz | | C _j | - | 15 | - | pF |

Note

⁽¹⁾ In one packing unit I_{Vmax}/I_{Vmin} ≤ 1.6



OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)
VLMO310., SOFT ORANGE

| PARAMETER | TEST CONDITION | PART | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------------------|---|----------|-------------|------|----------|------|------|
| Luminous intensity ⁽¹⁾ | $I_F = 10\text{ mA}$ | VLMO3100 | I_V | 2.8 | 8 | - | mcd |
| | | VLMO3101 | I_V | 4.5 | - | 11.2 | mcd |
| Dominant wavelength | $I_F = 10\text{ mA}$ | | λ_d | 598 | - | 611 | nm |
| Peak wavelength | $I_F = 10\text{ mA}$ | | λ_p | - | 605 | - | nm |
| Angle of half intensity | $I_F = 10\text{ mA}$ | | ϕ | - | ± 60 | - | deg |
| Forward voltage | $I_F = 20\text{ mA}$ | | V_F | - | 2 | 2.8 | V |
| Reverse voltage | $I_R = 10\text{ }\mu\text{A}$ | | V_R | 6 | 15 | - | V |
| Junction capacitance | $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | | C_j | - | 15 | - | pF |

Note

⁽¹⁾ In one packing unit $I_{Vmax}/I_{Vmin} \leq 1.6$

OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)
VLMY310., YELLOW

| PARAMETER | TEST CONDITION | PART | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------------------|---|----------|-------------|------|----------|------|------|
| Luminous intensity ⁽¹⁾ | $I_F = 10\text{ mA}$ | VLMY3100 | I_V | 2.8 | 10 | - | mcd |
| | | VLMY3101 | I_V | 4.5 | - | 11.2 | mcd |
| | | VLMY3102 | I_V | 7.1 | - | 18 | mcd |
| Dominant wavelength | $I_F = 10\text{ mA}$ | | λ_d | 581 | - | 594 | nm |
| Peak wavelength | $I_F = 10\text{ mA}$ | | λ_p | - | 585 | - | nm |
| Angle of half intensity | $I_F = 10\text{ mA}$ | | ϕ | - | ± 60 | - | deg |
| Forward voltage | $I_F = 20\text{ mA}$ | | V_F | - | 2.1 | 2.8 | V |
| Reverse voltage | $I_R = 10\text{ }\mu\text{A}$ | | V_R | 6 | 15 | - | V |
| Junction capacitance | $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | | C_j | - | 15 | - | pF |

Note

⁽¹⁾ In one packing unit $I_{Vmax}/I_{Vmin} \leq 1.6$

OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)
VLMG310., GREEN

| PARAMETER | TEST CONDITION | PART | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------------------|---|----------|-------------|------|----------|------|------|
| Luminous intensity ⁽¹⁾ | $I_F = 10\text{ mA}$ | VLMG3100 | I_V | 4.5 | 16 | - | mcd |
| | | VLMG3102 | I_V | 11.2 | - | 18 | mcd |
| | | VLMG3105 | I_V | 7.1 | - | 18 | mcd |
| Dominant wavelength | $I_F = 10\text{ mA}$ | | λ_d | 562 | - | 575 | nm |
| Peak wavelength | $I_F = 10\text{ mA}$ | | λ_p | - | 565 | - | nm |
| Angle of half intensity | $I_F = 10\text{ mA}$ | | ϕ | - | ± 60 | - | deg |
| Forward voltage | $I_F = 20\text{ mA}$ | | V_F | - | 2.2 | 2.8 | V |
| Reverse voltage | $I_R = 10\text{ }\mu\text{A}$ | | V_R | 6 | 15 | - | V |
| Junction capacitance | $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | | - | - | 15 | - | pF |

Note

⁽¹⁾ In one packing unit $I_{Vmax}/I_{Vmin} \leq 1.6$



OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)
VLMP310., PURE GREEN

| PARAMETER | TEST CONDITION | PART | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------------------|---|----------|-------------|------|----------|------|------|
| Luminous intensity ⁽¹⁾ | $I_F = 10\text{ mA}$ | VLMP3100 | I_V | 1.12 | 4 | - | mcd |
| | | VLMP3101 | I_V | 1.8 | - | 4.5 | mcd |
| | | VLMP3102 | I_V | 2.8 | - | 7.1 | mcd |
| | | VLMP3107 | I_V | 2.8 | - | 5.6 | mcd |
| Dominant wavelength | $I_F = 10\text{ mA}$ | | λ_d | 555 | - | 565 | nm |
| Peak wavelength | $I_F = 10\text{ mA}$ | | λ_p | - | 555 | - | nm |
| Angle of half intensity | $I_F = 10\text{ mA}$ | | ϕ | - | ± 60 | - | deg |
| Forward voltage | $I_F = 20\text{ mA}$ | | V_F | - | 2.1 | 2.8 | V |
| Reverse voltage | $I_R = 10\text{ }\mu\text{A}$ | | V_R | 6 | 15 | - | V |
| Junction capacitance | $V_R = 0\text{ V}$, $f = 1\text{ MHz}$ | | C_j | - | 15 | - | pF |

Note

⁽¹⁾ In one packing unit $I_{Vmax.}/I_{Vmin.} \leq 1.6$

COLOR CALSSIFICATION

| GROUP | YELLOW | | GREEN | | SOFT ORANGE | | PURE GREEN | |
|-------|----------------------|------|-------|------|-------------|------|------------|------|
| | DOM. WAVELENGTH (nm) | | | | | | | |
| | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. |
| 0 | | | | | | | 555 | 559 |
| 1 | 581 | 584 | | | 598 | 601 | 558 | 561 |
| 2 | 583 | 586 | | | 600 | 603 | 560 | 563 |
| 3 | 585 | 588 | | | 602 | 605 | 562 | 565 |
| 4 | 587 | 590 | 564 | 567 | 604 | 607 | | |
| 5 | 589 | 592 | 566 | 569 | 606 | 609 | | |
| 6 | 591 | 594 | 568 | 571 | 608 | 611 | | |
| 7 | | | 570 | 573 | | | | |
| 8 | | | 572 | 575 | | | | |

Note

- Wavelengths are tested at a current pulse duration of 25 ms.

LUMINOUS INTENSITY CLASSIFICATION

| GROUP | LIGHT INTENSITY (mcd) | | |
|-------|-----------------------|----------|-------|
| | STANDARD | OPTIONAL | MAX. |
| F | - | - | - |
| | 2 | 1.40 | 1.80 |
| G | 1 | 1.80 | 2.24 |
| | 2 | 2.24 | 2.80 |
| H | 1 | 2.80 | 3.55 |
| | 2 | 3.55 | 4.50 |
| J | 1 | 4.50 | 5.60 |
| | 2 | 5.60 | 7.10 |
| K | 1 | 7.10 | 9.00 |
| | 2 | 9.00 | 11.20 |
| L | 1 | 11.20 | 14.00 |
| | 2 | 14.00 | 18.00 |
| M | 1 | 18.00 | 22.40 |
| | 2 | 22.40 | 28.00 |

Note

- Luminous intensity is tested at a current pulse duration of 25 ms and an accuracy of $\pm 11\%$.
 The above type numbers represent the order groups which include only a few brightness groups. Only one group will be shipped on each reel (there will be no mixing of two groups on each reel).
 In order to ensure availability, single brightness groups will not be orderable.
 In a similar manner for colors where wavelength groups are measured and binned, single wavelength groups will be shipped on any one reel.
 In order to ensure availability, single wavelength groups will not be orderable.

| CROSSING TABLE | | |
|----------------|------------|-----------|
| VISHAY | OSRAM | STANLEY |
| VLMH3100 | - | - |
| VLMH3101 | - | - |
| VLMH3102 | - | - |
| VLMO3100 | LOT670J1L2 | - |
| VLMO3101 | LOT670J1K2 | - |
| VLMY3100 | LYT670J1L2 | - |
| VLMY3101 | LYT670J1K2 | - |
| VLMY3102 | LYT670K1L2 | - |
| VLMG3100 | LGT670K1M2 | VYBG1104B |
| VLMG3102 | LGT670L1L2 | - |
| VLMG3105 | LGT671K1L2 | - |
| VLMP3100 | LPT670F2J2 | - |
| VLMP3101 | LPT670G1H2 | VYBG1101W |
| VLMP3102 | LPT670H1J2 | - |
| VLMP3107 | LPT670H1J1 | - |

TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)



Fig. 1 - Maximum Permissible Forward Current vs. Ambient Temperature



Fig. 3 - Relative Luminous Intensity vs. Angular Displacement



Fig. 2 - Permissible Pulse Forward Current vs. Pulse Duration



Fig. 4 - Forward Current vs. Forward Voltage



Fig. 5 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 8 - Relative Intensity vs. Wavelength



Fig. 6 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 9 - Forward Current vs. Forward Voltage



Fig. 7 - Relative Luminous Intensity vs. Forward Current



Fig. 10 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 11 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 14 - Forward Current vs. Forward Voltage



Fig. 12 - Relative Luminous Intensity vs. Forward Current



Fig. 15 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 13 - Relative Intensity vs. Wavelength



Fig. 16 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 17 - Relative Luminous Intensity vs. Forward Current



Fig. 20 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 18 - Relative Intensity vs. Wavelength



Fig. 21 - Specific Luminous Intensity vs. Forward Current



Fig. 19 - Forward Current vs. Forward Voltage



Fig. 22 - Relative Luminous Intensity vs. Forward Current



Fig. 23 - Relative Intensity vs. Wavelength



Fig. 26 - Specific Luminous Intensity vs. Forward Current



Fig. 24 - Forward Current vs. Forward Voltage



Fig. 27 - Relative Luminous Intensity vs. Forward Current



Fig. 25 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 28 - Relative Intensity vs. Wavelength



PACKAGE DIMENSIONS in millimeters



technical drawings according to DIN specifications



Mounting Pad Layout



Drawing-No.: 6.541-5067.01-4
Issue: 5; 04.11.08
20541

METHOD OF TAPING/POLARITY AND TAPE AND REEL

SMD LED (VLM3-SERIES)

Vishay's LEDs in SMD packages are available in an antistatic 8 mm blister tape (in accordance with DIN IEC 40 (CO) 564) for automatic component insertion. The blister tape is a plastic strip with impressed component cavities, covered by a top tape.



TAPING OF VLM.3..



Fig. 29 - Tape Dimensions in mm for PLCC-2



REEL PACKAGE DIMENSION IN MILLIMETERS FOR SMD LEDS, TAPE OPTION GS08 (= 1500 PCS.)



Fig. 30 - Reel Dimensions - GS08

SOLDERING PROFILE



Fig. 32 - Vishay Lead (Pb)-free Reflow Soldering Profile (acc. to J-STD-020)

REEL PACKAGE DIMENSION IN MILLIMETERS FOR SMD LEDS, TAPE OPTION GS18 (= 8000 PCS.) PREFERRED



Fig. 31 - Reel Dimensions - GS18



Fig. 33 - Double Wave Soldering of Opto Devices (all Packages)



BAR CODE PRODUCT LABEL (example)



- A) Type of component
- B) Manufacturing plant
- C) SEL - selection code (bin):
e.g.: K1= code for luminous intensity group
4= code for color group
- D) Date code year/week
- E) Day code (e.g. 2: Tuesday)
- F) Batch no.
- G) Total quantity
- H) Company code

DRY PACKING

The reel is packed in an anti-humidity bag to protect the devices from absorbing moisture during transportation and storage.



FINAL PACKING

The sealed reel is packed into a cardboard box. A secondary cardboard box is used for shipping purposes.

RECOMMENDED METHOD OF STORAGE

Dry box storage is recommended as soon as the aluminum bag has been opened to prevent moisture absorption. The following conditions should be observed, if dry boxes are not available:

- Storage temperature 10 °C to 30 °C
- Storage humidity ≤ 60 % RH max.

After more than 672 h under these conditions moisture content will be too high for reflow soldering.

In case of moisture absorption, the devices will recover to the former condition by drying under the following condition:

- 192 h at 40 °C + 5 °C/- 0 °C and < 5 % RH (dry air/nitrogen) or
- 96 h at 60 °C + 5 °C and < 5 % RH for all device containers or
- 24 h at 100 °C + 5 °C not suitable for reel or tubes.

An EIA JEDEC standard JESD22-A112 level 2a label is included on all dry bags.



Example of JESD22-A112 level 2a label

ESD PRECAUTION

Proper storage and handling procedures should be followed to prevent ESD damage to the devices especially when they are removed from the antistatic shielding bag. Electro-static sensitive devices warning labels are on the packaging.

VISHAY SEMICONDUCTORS STANDARD BAR CODE LABELS

The Vishay Semiconductors standard bar code labels are printed at final packing areas. The labels are on each packing unit and contain Vishay Semiconductors specific data.



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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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