



125W Dual Output Switching Power Supply

RD-125 series



■ Features :

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

| MODEL | RD-125A | | RD-125B | | |
|--------------------------------------|--|---|---------|---|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 5V | 12V | 5V | 24V |
| | RATED CURRENT | 7.7A | 7.7A | 4.6A | 4.6A |
| | CURRENT RANGE <small>Note.6</small> | 0 ~ 12A | 0 ~ 10A | 0 ~ 10A | 0 ~ 5A |
| | RATED POWER <small>Note.6</small> | 130.9W | | 133.4W | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 80mVp-p | | 80mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | CH1: 4.75 ~ 5.5V | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±5.0% | | ±5.0% | ±7.0% |
| | LINE REGULATION <small>Note.4</small> | ±1.0% | | ±1.0% | ±2.0% |
| | LOAD REGULATION <small>Note.5</small> | ±3.0% | | ±3.0% | ±4.0% |
| SETUP, RISE TIME | 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load | | | | |
| HOLD UP TIME (Typ.) | 25ms/230VAC 30ms/115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC / 176 ~ 264VAC selected by switch | | 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage) | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | |
| | EFFICIENCY (Typ.) | 82% | | 85% | |
| | AC CURRENT (Typ.) | 3A/115VAC 2A/230VAC | | | |
| | INRUSH CURRENT (Typ.) | COLD START 50A/230VAC | | | |
| LEAKAGE CURRENT | <2mA / 240VAC | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | OVER VOLTAGE | CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +70°C (Refer to "Derating Curve") | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) on CH1 output | | | |
| VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | |
| SAFETY & EMC <small>(Note 7)</small> | SAFETY STANDARDS | UL62368-1, TUV EN62368-1, EAC TP TC 004 approved | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 | | | |
| EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 | | | | |
| OTHERS | MTBF | 232.4Khrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 199*98*38mm (L*W*H) | | | |
| | PACKING | 0.7Kg; 20pcs/15Kg/0.8CUFT | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.</p> <p>6. Each output can work within current range. But total output power can't exceed rated output power.</p> <p>7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> | | | | |



■ Features :

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

| MODEL | RD-125-1224 | | RD-125-1248 | | RD-125-2448 | | |
|--------------------------------------|--|---|----------------------------------|---|-------------|---|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 12V | 24V | 12V | 48V | 24V | 48V |
| | RATED CURRENT | 3.7A | 3.7A | 2.3A | 2.3A | 2A | 2A |
| | CURRENT RANGE <small>Note.6</small> | 0 ~ 7A | 0 ~ 5A | 0 ~ 7A | 0 ~ 2.5A | 0 ~ 4A | 0 ~ 2.5A |
| | RATED POWER <small>Note.6</small> | 133.2W | | 138W | | 144W | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 120mVp-p | 200mVp-p | 120mVp-p | 240mVp-p | 200mVp-p | 240mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 11.4 ~ 13.2V | | CH1: 11.4 ~ 13.2V | | CH1: 22.8 ~ 26.4V | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±2.0% | ±8.0% | ±2.0% | ±8.0% | ±1.0% | ±6.0% |
| | LINE REGULATION <small>Note.4</small> | ±0.5% | ±1.0% | ±0.5% | ±1.0% | ±0.5% | ±1.0% |
| | LOAD REGULATION <small>Note.5</small> | ±1.0% | ±5.0% | ±1.0% | ±5.0% | ±1.0% | ±5.0% |
| SETUP, RISE TIME | 500ms, 20ms/230VAC | | 1200ms, 30ms/115VAC at full load | | | | |
| HOLD UP TIME (Typ.) | 25ms/230VAC | | 30ms/115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC / 176 ~ 264VAC selected by switch | | 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage) | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 85% | | 86% | | 86% | |
| | AC CURRENT (Typ.) | 3A/115VAC 2A/230VAC | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 50A/230VAC | | | | | |
| LEAKAGE CURRENT | <2mA / 240VAC | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | CH1: 13.8 ~ 16.2V | | CH1: 13.8 ~ 16.2V | | CH1: 27.6 ~ 32.4V Protection type : Hiccup mode, recovers automatically after fault condition is removed | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +70°C (Refer to "Derating Curve") | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) on CH1 output | | | | | |
| SAFETY & EMC <small>(Note 7)</small> | VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| | SAFETY STANDARDS | UL62368-1, TUV EN62368-1, EAC TP TC 004 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 | | | | | |
| | MTBF | 218.2Khrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 199*98*38mm (L*W*H) | | | | | |
| | PACKING | 0.7Kg; 20pcs/15Kg/0.8CUFT | | | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.</p> <p>6. Each output can work within current range. But total output power can't exceed rated output power.</p> <p>7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> | | | | | | |



■ Features :

- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
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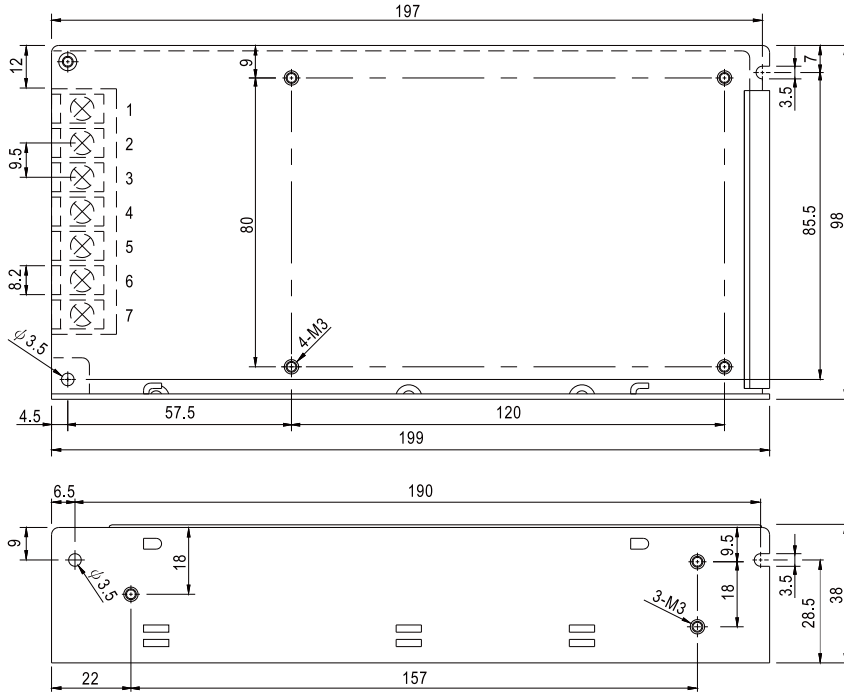


SPECIFICATION

| MODEL | RD-125-2412 | | RD-125-4812 | | RD-125-4824 | | |
|--------------------------------------|--|---|----------------------------------|--|-------------|-------------------|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 24V | 12V | 48V | 12V | 48V | 24V |
| | RATED CURRENT | 3.7A | 3.7A | 2.3A | 2.3A | 2A | 2A |
| | CURRENT RANGE <small>Note.6</small> | 0 ~ 5A | 0 ~ 7A | 0 ~ 2.5A | 0 ~ 7A | 0 ~ 2.5A | 0 ~ 4A |
| | RATED POWER <small>Note.6</small> | 133.2W | | 138W | | 144W | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 200mVp-p | 120mVp-p | 240mVp-p | 120mVp-p | 240mVp-p | 240mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 22.8 ~ 26.4V | | CH1: 45.6 ~ 52.8V | | CH1: 45.6 ~ 52.8V | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±2.0% | ±10% | ±2.0% | ±10% | ±1.0% | ±8.0% |
| | LINE REGULATION <small>Note.4</small> | ±0.5% | ±1.0% | ±0.5% | ±1.0% | ±0.5% | ±1.0% |
| | LOAD REGULATION <small>Note.5</small> | ±1.0% | ±5.0% | ±1.0% | ±5.0% | ±1.0% | ±5.0% |
| SETUP, RISE TIME | 500ms, 20ms/230VAC | | 1200ms, 30ms/115VAC at full load | | | | |
| HOLD UP TIME (Typ.) | 25ms/230VAC | | 30ms/115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 88 ~ 132VAC / 176 ~ 264VAC selected by switch | | 248 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 85% | | 86% | | 86% | |
| | AC CURRENT (Typ.) | 3A/115VAC 2A/230VAC | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 50A/230VAC | | | | | |
| LEAKAGE CURRENT | <2mA / 240VAC | | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | CH1: 27.6 ~ 32.4V | | CH1: 55.2 ~ 64.8V | | CH1: 55.2 ~ 64.8V | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +70°C (Refer to "Derating Curve") | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) on CH1 output | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC <small>(Note 7)</small> | SAFETY STANDARDS | UL62368-1, TUV EN62368-1, EAC TP TC 004 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 | | | | | |
| | MTBF | 232.4Khrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 199*98*38mm (L*W*H) | | | | | |
| | PACKING | 0.7Kg; 20pcs/15Kg/0.8CUFT | | | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.</p> <p>6. Each output can work within current range. But total output power can't exceed rated output power.</p> <p>7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> | | | | | | |

Mechanical Specification

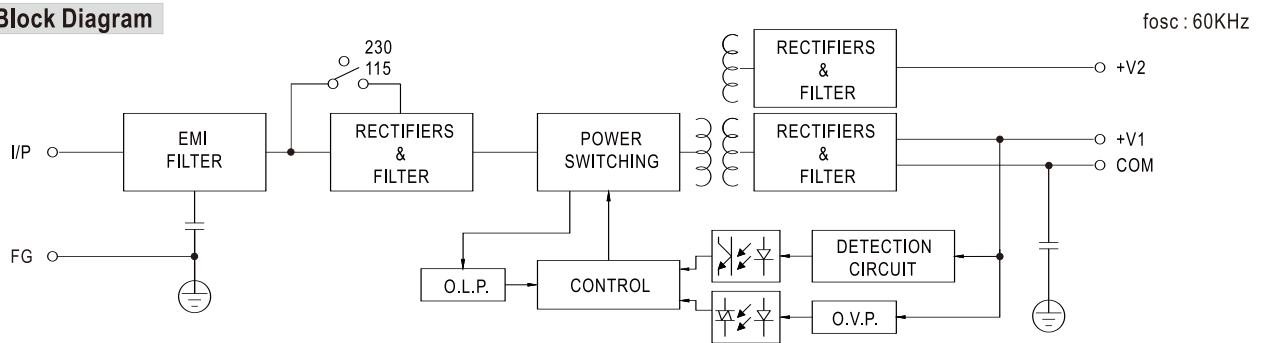
Case No. 902A Unit:mm



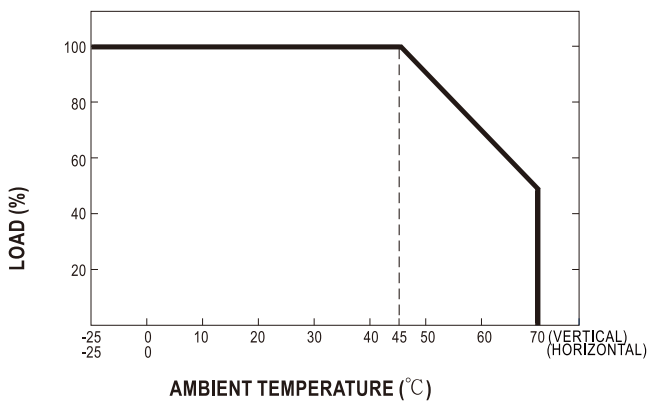
Terminal Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|---------------|
| 1 | AC/L | 4,6 | DC OUTPUT COM |
| 2 | AC/N | 5 | DC OUTPUT +V2 |
| 3 | FG \perp | 7 | DC OUTPUT +V1 |

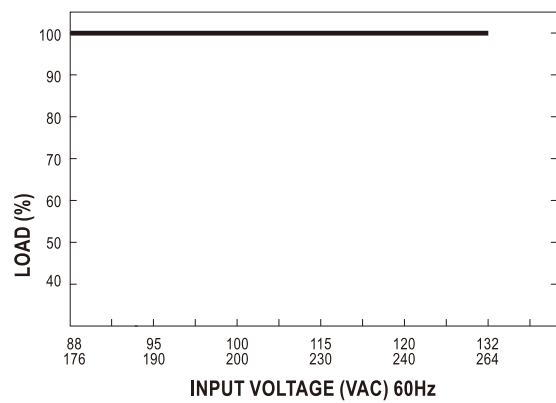
Block Diagram



Derating Curve



Static Characteristics





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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