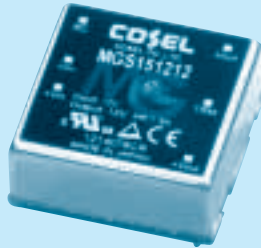
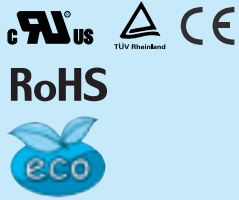


MGS15

MG S 15 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
- G : Capacitor between Input and Output is removed.
- R : with Remote ON/OFF (Positive logic control)

| MODEL | MGS15123R3 | MGS151205 | MGS151212 | MGS151215 | MGS15243R3 | MGS152405 | MGS152412 | MGS152415 | |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|----|
| MAX OUTPUT WATTAGE[W] | 13.2 | 15 | 15.6 | 15 | 13.2 | 15 | 15.6 | 15 | |
| DC OUTPUT | VOLTAGE[V] *1 | 3.3 | 5 | 12 | 15 | 3.3 | 5 | 12 | 15 |
| | CURRENT[A]] | 4 | 3 | 1.3 | 1 | 4 | 3 | 1.3 | 1 |

MG

SPECIFICATIONS

| | MODEL | MGS15123R3 | MGS151205 | MGS151212 | MGS151215 | MGS15243R3 | MGS152405 | MGS152412 | MGS152415 | |
|---------------------------------|---|--|-----------------|-----------------|---------------|---------------|-----------------|-----------------|-----------|--------|
| INPUT | VOLTAGE[V] | DC9 - 18 | | | | DC18 - 36 | | | | |
| | CURRENT[A] | *2 1.28typ | 1.44typ | 1.49typ | 1.42typ | 0.63typ | 0.70typ | 0.73typ | 0.70typ | |
| | EFFICIENCY[%] | *2 86typ | 87typ | 87typ | 88typ | 87typ | 89typ | 89typ | 89typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | 15 | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 4 | 3 | 1.3 | 1 | 4 | 3 | 1.3 | 1 | |
| | LINE REGULATION[mV] | 13.2max | 20max | 48max | 60max | 13.2max | 20max | 48max | 60max | |
| | LOAD REGULATION[mV] | 13.2max | 20max | 48max | 60max | 13.2max | 20max | 48max | 60max | |
| | RIPPLE[mVp-p] | -20 to +60°C | 75max | 75max | 100max | 100max | 75max | 75max | 100max | 100max |
| | | *3 -40 to -20°C | 100max | 100max | 120max | 120max | 100max | 100max | 120max | 120max |
| | RIPPLE NOISE[mVp-p] | -20 to +60°C | 75max | 75max | 100max | 100max | 75max | 75max | 100max | 100max |
| | | *3 -40 to -20°C | 150max | 150max | 150max | 150max | 150max | 150max | 150max | 150max |
| | TEMPERATURE REGULATION[mV] | -20 to +60°C | 50max | 50max | 150max | 180max | 50max | 50max | 150max | 180max |
| | | -40 to +60°C | 80max | 80max | 240max | 290max | 80max | 80max | 240max | 290max |
| | DRIFT[mV] | *4 20max | 20max | 48max | 60max | 20max | 20max | 48max | 60max | |
| START-UP TIME[ms] | 30max (Minimum input, Io=100%) | | | | | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) Available to adjust ±10% by external variable resistor | | | | | | | | | |
| OUTPUT VOLTAGE SETTING[V]*5 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | | | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | | | | | | |

| MODEL | MGS15483R3 | MGS154805 | MGS154812 | MGS154815 | |
|-----------------------|---------------|-----------|-----------|-----------|----|
| MAX OUTPUT WATTAGE[W] | 13.2 | 15 | 15.6 | 15 | |
| DC OUTPUT | VOLTAGE[V] *1 | 3.3 | 5 | 12 | 15 |
| | CURRENT[A]] | 4 | 3 | 1.3 | 1 |

SPECIFICATIONS

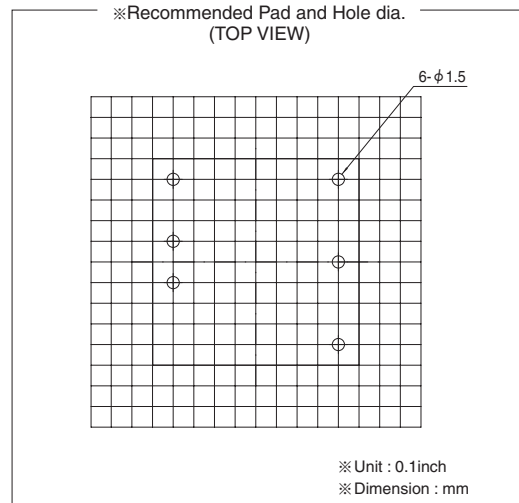
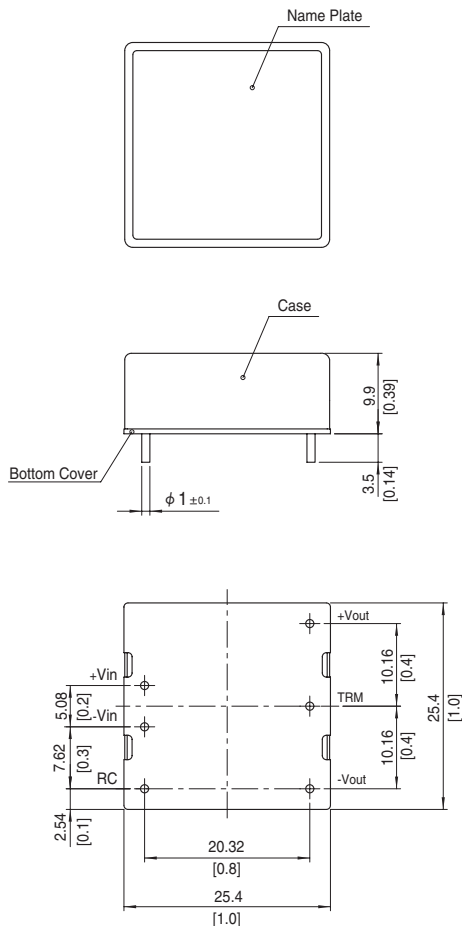
| | MODEL | MGS15483R3 | MGS154805 | MGS154812 | MGS154815 | |
|---------------------------------|---|--|-----------------|-----------------|-----------|--------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | |
| | CURRENT[A] | *2 0.32typ | 0.35typ | 0.36typ | 0.35typ | |
| | EFFICIENCY[%] | *2 87typ | 89typ | 90typ | 90typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 4 | 3 | 1.3 | 1 | |
| | LINE REGULATION[mV] | 13.2max | 20max | 48max | 60max | |
| | LOAD REGULATION[mV] | 13.2max | 20max | 48max | 60max | |
| | RIPPLE[mVp-p] | -20 to +60°C | 75max | 75max | 100max | 100max |
| | | *3 -40 to -20°C | 100max | 100max | 120max | 120max |
| | RIPPLE NOISE[mVp-p] | -20 to +60°C | 75max | 75max | 100max | 100max |
| | | *3 -40 to -20°C | 150max | 150max | 150max | 150max |
| | TEMPERATURE REGULATION[mV] | -20 to +60°C | 50max | 50max | 150max | 180max |
| | | -40 to +60°C | 80max | 80max | 240max | 290max |
| | DRIFT[mV] | *4 20max | 20max | 48max | 60max | |
| START-UP TIME[ms] | 30max (Minimum input, Io=100%) | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±10% adjustable by external VR | | | | | |
| OUTPUT VOLTAGE SETTING[V]*5 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | | |

GENERAL SPECIFICATIONS

| | | |
|-------------|--------------------------------------|--|
| ISOLATION | INPUT-OUTPUT | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| | INPUT-CASE | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| | OUTPUT-CASE | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max |
| | STORAGE TEMP., HUMID. AND ALTITUDE | -40 to +100°C, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max |
| | VIBRATION | 10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 60minutes each along X, Y and Z axis |
| | IMPACT | 490.3m/s ² (50G), 11ms, once each along X, Y and Z axis |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL, EN60950-1 |
| OTHERS | CASE SIZE/WEIGHT | 25.4 X 9.9 X 25.4mm [1 X 0.39 X 1 inches] (W X H X D) / 20g max |
| | COOLING METHOD | Convection/Forced air |

- *1 MGW15xx05/MGW15xx12/MGW15xx15 is available as single output, +10V/+24V/+30V
- *2 Rated input 12V, 24V or 48V DC I_o=100%
- *3 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 22μF at 50mm from output pins. (20MHz Oscilloscope)
- *4 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
- *5 Rated input voltage (DC12V, DC24V, DC48V), rated output wattage, ambient temperature at 25°C.
- * Parallel operation with other model is not possible.

External view

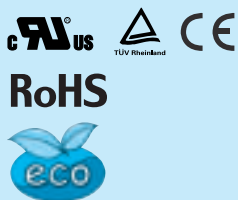


- ※ Tolerance ±0.5 [±0.02]
- ※ Dimensions in mm, []=inches
- ※ Pin terminal material : Copper
- ※ Plating treatment of terminal : Lead free plating
- ※ Case material : Brass
- ※ Plating treatment of case : Nickel plating
- ※ Bottom Cover : FR4 (t=0.6) [t=0.024]
- ※ Please keep enough creepage distance with the pattern on PCB and other components.
- ※ Weight 20g max

MGS30

MG S 30 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
- G : Capacitor between Input and Output is removed.
- R : with Remote ON/OFF (Positive logic control)

| MODEL | MGS30123R3 | MGS301205 | MGS301212 | MGS301215 | MGS30243R3 | MGS302405 | MGS302412 | MGS302415 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 26.4 | 30 | 30 | 30 | 26.4 | 30 | 30 | 30 |
| DC OUTPUT | VOLTAGE[V] *1 | 3.3 | 5 | 12 | 15 | 3.3 | 5 | 12 |
| | CURRENT[A] | 8 | 6 | 2.5 | 2 | 8 | 6 | 2.5 |

SPECIFICATIONS

| | MODEL | MGS30123R3 | MGS301205 | MGS301212 | MGS301215 | MGS30243R3 | MGS302405 | MGS302412 | MGS302415 | |
|---------------------------------|---|--|-----------------|-----------------|---------------|---------------|-----------------|-----------------|-----------|--------|
| INPUT | VOLTAGE[V] | DC9 - 18 | | | | DC18 - 36 | | | | |
| | CURRENT[A] *2 | 2.45typ | 2.75typ | 2.78typ | 2.78typ | 1.21typ | 1.36typ | 1.36typ | 1.36typ | |
| | EFFICIENCY[%] *2 | 90typ | 91typ | 90typ | 90typ | 91typ | 92typ | 92typ | 92typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | 15 | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 8 | 6 | 2.5 | 2 | 8 | 6 | 2.5 | 2 | |
| | LINE REGULATION[mV] | 13.2max | 20max | 48max | 60max | 13.2max | 20max | 48max | 60max | |
| | LOAD REGULATION[mV] | 13.2max | 20max | 48max | 60max | 13.2max | 20max | 48max | 60max | |
| | RIPPLE[mVp-p] *3 | -20 to +60°C | 75max | 75max | 100max | 100max | 75max | 75max | 100max | 100max |
| | | -40 to -20°C | 100max | 100max | 120max | 120max | 100max | 100max | 120max | 120max |
| | RIPPLE NOISE[mVp-p] *3 | -20 to +60°C | 75max | 75max | 100max | 100max | 75max | 75max | 100max | 100max |
| | | -40 to -20°C | 150max | 150max | 150max | 150max | 150max | 150max | 150max | 150max |
| | TEMPERATURE REGULATION[mV] | -20 to +60°C | 50max | 50max | 150max | 180max | 50max | 50max | 150max | 180max |
| | | -40 to +60°C | 80max | 80max | 240max | 290max | 80max | 80max | 240max | 290max |
| DRIFT[mV] *4 | 20max | 20max | 48max | 60max | 20max | 20max | 48max | 60max | | |
| START-UP TIME[ms] | 30max (Minimum input, Io=100%) | | | | | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±10% adjustable by external VR | | | | | | | | | |
| OUTPUT VOLTAGE SETTING[V]*5 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | | | | | |
| | OVERVOLTAGE PROTECTION[V] | Works over 120 to 160% of rating | | | | | | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | | | | | | |

| MODEL | MGS30483R3 | MGS304805 | MGS304812 | MGS304815 |
|-----------------------|---------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 26.4 | 30 | 30 | 30 |
| DC OUTPUT | VOLTAGE[V] *1 | 3.3 | 5 | 12 |
| | CURRENT[A] | 8 | 6 | 2.5 |

SPECIFICATIONS

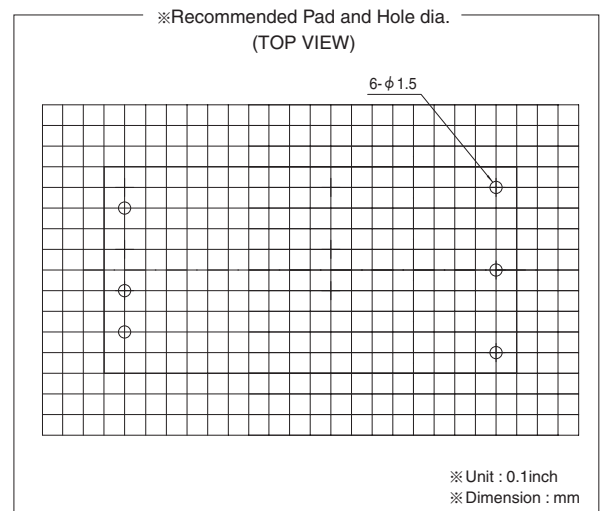
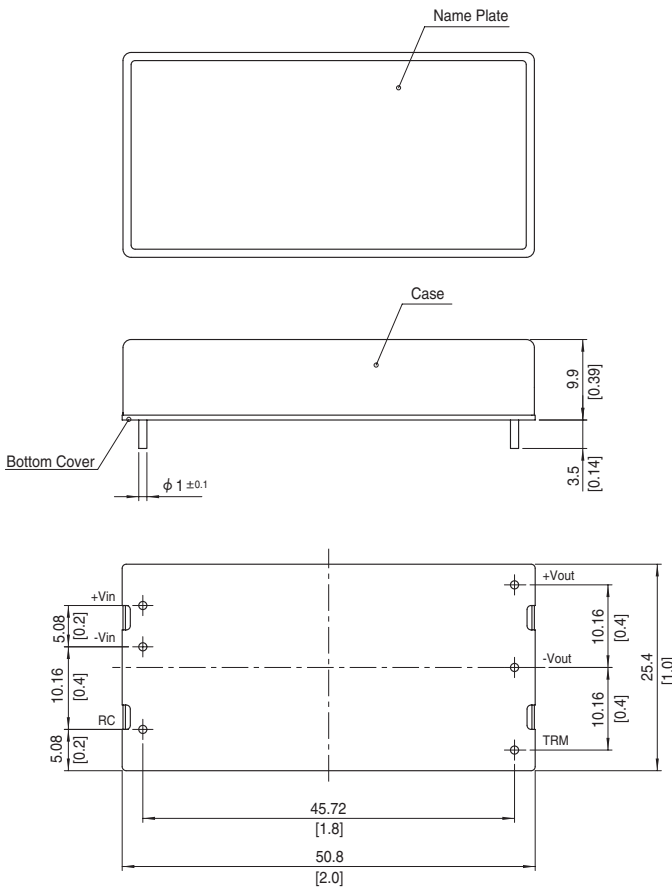
| | MODEL | MGS30483R3 | MGS304805 | MGS304812 | MGS304815 | |
|---------------------------------|---|--|-----------------|-----------------|-----------|--------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | |
| | CURRENT[A] *2 | 0.61typ | 0.68typ | 0.68typ | 0.68typ | |
| | EFFICIENCY[%] *2 | 91typ | 92typ | 92typ | 92typ | |
| OUTPUT | VOLTAGE[V] | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 8 | 6 | 2.5 | 2 | |
| | LINE REGULATION[mV] | 13.2max | 20max | 48max | 60max | |
| | LOAD REGULATION[mV] | 13.2max | 20max | 48max | 60max | |
| | RIPPLE[mVp-p] *3 | -20 to +60°C | 75max | 75max | 100max | 100max |
| | | -40 to -20°C | 100max | 100max | 120max | 120max |
| | RIPPLE NOISE[mVp-p] *3 | -20 to +60°C | 75max | 75max | 100max | 100max |
| | | -40 to -20°C | 150max | 150max | 150max | 150max |
| | TEMPERATURE REGULATION[mV] | -20 to +60°C | 50max | 50max | 150max | 180max |
| | | -40 to +60°C | 80max | 80max | 240max | 290max |
| DRIFT[mV] *4 | 20max | 20max | 48max | 60max | | |
| START-UP TIME[ms] | 30max (Minimum input, Io=100%) | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE | Fixed (TRM pin open) ±10% adjustable by external VR | | | | | |
| OUTPUT VOLTAGE SETTING[V]*5 | 3.296 - 3.404 | 4.975 - 5.137 | 11.857 - 12.243 | 14.839 - 15.321 | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | |
| | OVERVOLTAGE PROTECTION[V] | Works over 120 to 160% of rating | | | | |
| | REMOTE ON/OFF | Provided (Negative logic L:ON, H:OFF) | | | | |

GENERAL SPECIFICATIONS

| | | |
|-------------|--------------------------------------|--|
| ISOLATION | INPUT-OUTPUT | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| | INPUT-CASE | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| | OUTPUT-CASE | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C) |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max |
| | STORAGE TEMP., HUMID. AND ALTITUDE | -40 to +100°C, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max |
| | VIBRATION | 10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 60minutes each along X, Y and Z axis |
| | IMPACT | 490.3m/s ² (50G), 11ms, once each along X, Y and Z axis |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL, EN60950-1 |
| OTHERS | CASE SIZE/WEIGHT | 25.4 X 9.9 X 50.8mm [1 X 0.39 X 2 inches] (W X H X D) / 40g max |
| | COOLING METHOD | Convection/Forced air |

- *1 MGW30xx05/MGW30xx12/MGW30xx15 is available as single output, +10V/+24V/+30V
- *2 Rated input 12V, 24V or 48V DC I_o=100%
- *3 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 22μF at 50mm from output pins. (20MHz Oscilloscope)
- *4 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
- *5 Rated input voltage (DC12V, DC24V, DC48V), rated output wattage, ambient temperature at 25°C.
- * Parallel operation with other model is not possible.

External view



- ※ Tolerance ±0.5 [±0.02]
- ※ Dimensions in mm, []=inches
- ※ Pin terminal material : Copper
- ※ Plating treatment of terminal : Lead free plating
- ※ Case material : Brass
- ※ Plating treatment of case : Nickel plating
- ※ Bottom Cover : FR4 (t=0.6) [t=0.024]
- ※ Please keep enough creepage distance with the pattern on PCB and other components.
- ※ Weight 40g max

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[MGS304815](#) [MGS304815-R](#) [MGS30483R3](#) [MGS30483R3-R](#) [MGS302415-R](#) [MGS30243R3](#) [MGS30243R3-R](#)
[MGS304805](#) [MGS304805-R](#) [MGS304812](#) [MGS302405](#) [MGS302405-R](#) [MGS302412](#) [MGS302412-G](#) [MGS302412-R](#)
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[MGS154812](#) [MGS154812-G](#) [MGS154812-R](#) [MGS154815](#) [MGS152412-G](#) [MGS152412-R](#) [MGS152415](#)
[MGS152415-R](#) [MGS15243R3](#) [MGS15243R3-R](#) [MGS151215-R](#) [MGS15123R3](#) [MGS15123R3-R](#) [MGS152405](#)
[MGS152405-R](#) [MGS152412](#)



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

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- 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.);

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- 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

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