



## 25 to 600 Watts DC-DC Converters Single, Dual, Triple Output Chassis Mount

### Features & Benefits

- RoHS compliant (VE versions)
- Inputs: 10 to 400V<sub>DC</sub>
- Any output, 1 to 95V<sub>DC</sub>
- cULus, cTÜVus, CE Marked
- 80 – 90% Efficiency (Typical)
- Up to 27 W/In<sup>3</sup>
- 1 Up:  
2.58" x 2.5" x 0.62" (Junior)  
4.9" x 2.5" x 0.62" (Full Size)
- 2 Up:  
2.58" x 4.9" x 0.62" (Junior)  
4.9" x 4.9" x 0.62" (Full Size)
- 3 Up:  
2.58" x 7.3" x 0.62" (Junior)  
4.9" x 7.3" x 0.62" (Full Size)
- Low noise ZCS power architecture
- Booster versions available for expanded output power – full size only (add B to part number)  
Example: VI-LBxx-xx

### Product Highlights

Vicor's MegaMod and MegaMod Jr. Families of single, dual and triple output DC-DC converters provide power system designers with cost effective, high performance, off-the-shelf solutions to applications that might otherwise require a custom supply.

Incorporating standard VI-200 or VI-J00 Family converters in rugged, chassis mount packages, MegaMod and MegaMod Jr.'s can be ordered with single, dual or triple outputs, having a combined output power of up to 600W. Totally isolated outputs eliminate efficiency penalties and output interaction problems.

For on-line product configuration visit:

[MegaMod / MI-MegaMod DC-DC Converters Configurator](#)

### Configuration Chart

| Substitute VE- for VI- for RoHS compliant versions                                      |              |              |                                                                                           |              |              |
|-----------------------------------------------------------------------------------------|--------------|--------------|-------------------------------------------------------------------------------------------|--------------|--------------|
| Full-Size Modules – MegaMod                                                             |              |              | Junior-Size Modules – MegaMod Jr                                                          |              |              |
| Configuration                                                                           | Output Power | # of Modules | Configuration                                                                             | Output Power | # of Modules |
| <b>Single Output</b>                                                                    |              |              | <b>Single Output</b>                                                                      |              |              |
| VI-L   | 50 – 200W    | 1            | VI-LJ  | 25 – 100W    | 1            |
| VI-M   | 100 – 400W   | 2            |                                                                                           |              |              |
| VI-N   | 300 – 600W   | 3            |                                                                                           |              |              |
| <b>Dual Output</b>                                                                      |              |              | <b>Dual Output</b>                                                                        |              |              |
| VI-P   | 100 – 400W   | 2            | VI-PJ  | 50 – 200W    | 2            |
| VI-Q   | 150 – 600W   | 3            |                                                                                           |              |              |
| <b>Triple Output</b>                                                                    |              |              | <b>Triple Output</b>                                                                      |              |              |
| VI-RJ  | 150 – 600W   | 3            | VI-RJ  | 75 – 300W    | 3            |

#### Input Voltage

|                        |                        | Maximum Power (see chart below) |             | Low Line 75% Max Power Transient <sup>[a]</sup> |     |
|------------------------|------------------------|---------------------------------|-------------|-------------------------------------------------|-----|
| Nominal                | Input Range Full Power | MegaMod                         | MegaMod Jr. |                                                 |     |
| 0 = 12V <sup>[b]</sup> | 10 – 20V               | (4)                             | (1)         | n/a                                             | 22  |
| V = 24V <sup>[b]</sup> | 10 – 36V               | (2)                             | (11)        | n/a                                             | n/a |
| 1 = 24V <sup>[d]</sup> | 21 – 32V               | (8)                             | (6)         | 18V                                             | 36  |
| W = 24V <sup>[d]</sup> | 18 – 36V               | (8)                             | (6)         | n/a                                             | n/a |
| 2 = 36V                | 21 – 56V               | (6)                             | (1)         | 18V                                             | 60  |
| 3 = 48V                | 42 – 60V               | (10)                            | (6)         | 36V                                             | 72  |
| N = 48V                | 36 – 76V               | (10)                            | (5)         | n/a                                             | n/a |
| 4 = 72V                | 55 – 100V              | (9)                             | (6)         | 45V                                             | 110 |
| T = 110V               | 66 – 160V              | (8)                             | (5)         | n/a                                             | n/a |
| 5 = 150V               | 100 – 200V             | (9)                             | (6)         | 85V                                             | 215 |
| 6 = 300V               | 200 – 400V             | (10)                            | (6)         | 170V                                            | 425 |
| 7 = 150/300V           | 100 – 375V             | (5)                             | (1)         | 90V                                             | n/a |

| Max. Output Per Module | 5 – 7.5V Outputs    | >7.5V Outputs | <5V Outputs |
|------------------------|---------------------|---------------|-------------|
| (1)                    | 50W                 | 75W           | 10A         |
| (2)                    | 50W <sup>[e]</sup>  | 75W           | 15A         |
| (4)                    | 75W                 | 75W           | 15A         |
| (5)                    | 75W                 | 100W          | 20A         |
| (6)                    | 100W <sup>[f]</sup> | 100W          | 20A         |
| (7)                    | 100W                | 150W          | 30A         |
| (8)                    | 150W                | 150W          | 30A         |
| (9)                    | 150W                | 200W          | 40A         |
| (10)                   | 200W                | 200W          | 40A         |
| (11)                   | 50W                 | 50W           | 10A         |

[a] Transient voltage for 1 second.

[b] Single output configurations of 225W are limited to +55°C ambient and are available by special order.

[c] Dual and triple output configurations totaling 225W are limited to +55°C ambient.

[d] Single, dual, and triple output configurations totaling 450W are limited to +55°C.

[e] 7.5V output is 75W

[f] 6.5V and 7.5V output is 75W

#### Product Grade Temperature (°C)

| MegaMod        | MegaMod Jr. |
|----------------|-------------|
| E = –10 to +85 | –10 to +100 |
| C = –25 to +85 | –25 to +100 |
| I = –40 to +85 | –40 to +100 |
| M = –55 to +85 | –55 to +100 |

Refers to Baseplate Temperature

#### Output Power/Current

| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
|-----------------------|-----------------------|
| W = 100W              | W = 20A               |
| V = 150W              | V = 30A               |
| U = 200W              | U = 40A               |
| S = 300W              | S = 60A               |
| Q = 400W              | Q = 80A               |

#### Output Power/Current

| MegaMod               |                       | MegaMod Jr.           |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V | V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
| Y = 50W               | Y = 10A               | Z = 25W               | Z = 5A                |
| X = 75W               | X = 15A               | Y = 50W               | Y = 10A               |
| W = 100W              | W = 20A               | X = 75W               | X = 15A               |
| V = 150W              | V = 30A               | W = 100W              | W = 20A               |
| U = 200W              | U = 40A               |                       |                       |

#### Output Power/Current

| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
|-----------------------|-----------------------|
| S = 300W              | S = 60A               |
| P = 450W              | P = 90A               |
| M = 600W              | M = 120A              |

## MegaMod Specifications

(typical at T<sub>BP</sub> = 25°C, nominal line, 75% load, unless otherwise specified)

## INPUT SPECIFICATIONS

| Parameter                           | MegaMod (E-Grade) |                                                |     | MegaMod (C-, L-, M-Grade) |                                                |                      | Unit            | Test Conditions       |
|-------------------------------------|-------------------|------------------------------------------------|-----|---------------------------|------------------------------------------------|----------------------|-----------------|-----------------------|
|                                     | Min               | Typ                                            | Max | Min                       | Typ                                            | Max                  |                 |                       |
| Inrush charge                       |                   | 120x10 <sup>-6</sup>                           |     |                           | 120x10 <sup>-6</sup>                           | 200x10 <sup>-6</sup> | Coulombs        | Nom. line, per module |
| Input reflected ripple current – pp |                   | 10%                                            |     |                           | 10%                                            |                      | I <sub>IN</sub> | Nom. line, full load  |
| Input ripple rejection              |                   | 25+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |     |                           | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 120Hz, nom. line      |
|                                     |                   |                                                |     |                           | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 2400Hz, nom. line     |
| No load power dissipation           |                   | 1.35                                           | 2   |                           | 1.35                                           | 2                    | Watts           | Per module            |

## OUTPUT SPECIFICATIONS

| Parameter                              | MegaMod (E-Grade) |      |      | MegaMod (C-, L-, M-Grade) |       |      | Units            | Test Conditions     |
|----------------------------------------|-------------------|------|------|---------------------------|-------|------|------------------|---------------------|
|                                        | Min               | Typ  | Max  | Min                       | Typ   | Max  |                  |                     |
| Setpoint accuracy                      |                   | 1%   | 2%   |                           | 0.5%  | 1%   | V <sub>NOM</sub> |                     |
| Load / line regulation                 |                   |      | 0.5% |                           | 0.05% | 0.2% | V <sub>NOM</sub> | LL to HL, 10% to FL |
|                                        |                   |      | 1%   |                           | 0.2%  | 0.5% | V <sub>NOM</sub> | LL to HL, NL to 10% |
| Output temperature drift               |                   | 0.02 |      |                           | 0.01  | 0.02 | % / °C           | Over rated temp.    |
| Long term drift                        |                   | 0.02 |      |                           | 0.02  |      | %/1K hours       |                     |
| Output ripple - pp                     |                   |      |      |                           |       |      |                  |                     |
| 2V, 3.3V                               |                   |      | 150  |                           | 60    | 100  | mV               | 20MHz bandwidth     |
| 5V                                     |                   |      | 5%   |                           | 2%    | 3%   | V <sub>NOM</sub> | 20MHz bandwidth     |
| 10 – 95V                               |                   |      | 3%   |                           | 0.75% | 1.5% | V <sub>NOM</sub> | 20MHz bandwidth     |
| Output voltage trimming <sup>[a]</sup> | 50%               |      | 110% | 50%                       |       | 110% | V <sub>NOM</sub> |                     |
| Total remote sense compensation        | 0.5               |      |      | 0.5                       |       |      | Volts            | 0.25V max. neg. leg |
| OVP setpoint <sup>[b]</sup>            |                   | 125% |      | 115%                      | 125%  | 135% | V <sub>NOM</sub> | Recycle power       |
| Current limit                          | 105%              |      | 135% | 105%                      |       | 125% | I <sub>NOM</sub> | Automatic restart   |
| Short circuit current <sup>[c]</sup>   | 20%               |      | 140% | 20%                       |       | 130% | I <sub>NOM</sub> |                     |

<sup>[a]</sup> 10V to 15V outputs, or “V” input range have standard trim range ±10%. Consult factory for wider trim range. 95V output -50 + 0% trim range.<sup>[b]</sup> 131% typical for booster modules.<sup>[c]</sup> Output voltages of 5V or less incorporate foldback current limiting; outputs of 10V and above contain straight-line limiting.

## CONTROL PIN SPECIFICATIONS

| Parameter                    | MegaMod (E-Grade) |                 |      | MegaMod (C-, L-, M-Grade) |                 |      | Units | Test Conditions    |
|------------------------------|-------------------|-----------------|------|---------------------------|-----------------|------|-------|--------------------|
|                              | Min               | Typ             | Max  | Min                       | Typ             | Max  |       |                    |
| Gate out impedance           |                   | 50              |      |                           | 50              |      | Ohms  |                    |
| Gate in impedance            |                   | 10 <sup>3</sup> |      |                           | 10 <sup>3</sup> |      | Ohms  |                    |
| Gate in open circuit voltage |                   | 6               |      |                           | 6               |      | Volts | Use open collector |
| Gate in low threshold        | 0.65              |                 |      | 0.65                      |                 |      | Volts |                    |
| Gate in low current          |                   |                 | 6    |                           |                 | 6    | mA    |                    |
| Power sharing accuracy       | 0.95              |                 | 1.05 | 0.95                      |                 | 1.05 |       |                    |

## MegaMod Specifications (Cont.)

## DIELECTRIC WITHSTAND CHARACTERISTICS

| Parameter           | MegaMod (E-Grade) |     |     | MegaMod (C-, I-, M-Grade) |     |     | Unit             | Test Conditions   |
|---------------------|-------------------|-----|-----|---------------------------|-----|-----|------------------|-------------------|
|                     | Min               | Typ | Max | Min                       | Typ | Max |                  |                   |
| Input to output     | 3,000             |     |     | 3,000                     |     |     | V <sub>RMS</sub> | Baseplate earthed |
| Output to baseplate | 500               |     |     | 500                       |     |     | V <sub>RMS</sub> |                   |
| Input to baseplate  | 1,500             |     |     | 1,500                     |     |     | V <sub>RMS</sub> |                   |

## THERMAL CHARACTERISTICS

| Parameter                       | MegaMod (E-Grade) |        |     | MegaMod (C-, I-, M-Grade) |          |     | Units   | Test Conditions                               |
|---------------------------------|-------------------|--------|-----|---------------------------|----------|-----|---------|-----------------------------------------------|
|                                 | Min               | Typ    | Max | Min                       | Typ      | Max |         |                                               |
| Efficiency                      |                   | 78-88% |     |                           | 80 – 90% |     |         |                                               |
| Baseplate to chassis            |                   | 0.1    |     |                           | 0.1      |     | °C/Watt |                                               |
| Thermal Shutdown (drivers only) | 90                | 95     | 105 | 90                        | 95       | 105 | °C      | Baseplate (Cool and recycle power to restart) |

## MECHANICAL SPECIFICATIONS

| Parameter | MegaMod (E-Grade) |           |     | MegaMod (C-, I-, M-Grade) |           |     | Units          | Test Conditions |
|-----------|-------------------|-----------|-----|---------------------------|-----------|-----|----------------|-----------------|
|           | Min               | Typ       | Max | Min                       | Typ       | Max |                |                 |
| Weight    |                   |           |     |                           |           |     |                |                 |
| 1 Up      |                   | 9.0 (255) |     |                           | 9.0 (255) |     | Ounces (Grams) |                 |
| 2 Up      |                   | 1.2 (545) |     |                           | 1.2 (545) |     | Lbs. (Grams)   |                 |
| 3 Up      |                   | 1.7 (772) |     |                           | 1.7 (772) |     | Lbs. (Grams)   |                 |

## MegaMod Jr. Specifications

(typical at T<sub>BP</sub> = 25°C, nominal line, 75% load, unless otherwise specified)

## INPUT SPECIFICATIONS

| Parameter                           | MegaMod Jr. (E-Grade) |                                                |                      | MegaMod Jr. (C-, I-, M-Grade) |                                                |                      | Unit            | Test Conditions       |
|-------------------------------------|-----------------------|------------------------------------------------|----------------------|-------------------------------|------------------------------------------------|----------------------|-----------------|-----------------------|
|                                     | Min                   | Typ                                            | Max                  | Min                           | Typ                                            | Max                  |                 |                       |
| Inrush charge                       |                       | 60x10 <sup>-6</sup>                            | 100x10 <sup>-6</sup> |                               | 60x10 <sup>-6</sup>                            | 100x10 <sup>-6</sup> | Coulombs        | Nom. line, per module |
| Input reflected ripple current — pp |                       | 10%                                            |                      |                               | 10%                                            |                      | I <sub>IN</sub> | Nom. line, full load  |
| Input ripple rejection              |                       | 25+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      |                               | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 120Hz, nom. line      |
|                                     |                       |                                                |                      |                               | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 2400Hz, nom. line     |
| No load power dissipation           |                       | 1.35                                           | 2                    |                               | 1.35                                           | 2                    | Watts           | Per module            |

## OUTPUT SPECIFICATIONS

| Parameter                       | MegaMod Jr. (E-Grade) |      |      | MegaMod Jr. (C-, I-, M-Grade) |       |      | Units            | Test Conditions     |
|---------------------------------|-----------------------|------|------|-------------------------------|-------|------|------------------|---------------------|
|                                 | Min                   | Typ  | Max  | Min                           | Typ   | Max  |                  |                     |
| Setpoint accuracy               |                       | 1.0% | 2.0% |                               | 0.5%  | 1%   | V <sub>NOM</sub> |                     |
| Load/line regulation            |                       |      | 0.5% |                               | 0.05% | 0.2% | V <sub>NOM</sub> | LL to HL, 10% to FL |
|                                 |                       |      | 1.0% |                               | 0.2%  | 0.5% | V <sub>NOM</sub> | LL to HL, NL to 10% |
| Output temperature drift        |                       | 0.02 |      |                               | 0.01  |      | %/°C             | Over rated temp.    |
| Long term drift                 |                       | 0.02 |      |                               | 0.02  |      | %/1K hours       |                     |
| Output ripple, pp               |                       |      |      |                               |       |      |                  |                     |
| 2V, 3.3V                        |                       | 200  |      |                               | 100   | 150  | mV               | 20MHz bandwidth     |
| 5V                              |                       | 5%   |      |                               | 2%    | 3%   | V <sub>NOM</sub> | 20MHz bandwidth     |
| 10V – 95V                       |                       | 3%   |      |                               | 0.75% | 1.5% | V <sub>NOM</sub> | 20MHz bandwidth     |
| Output voltage trimming [a]     | 50%                   |      | 110% | 50%                           |       | 110% | V <sub>NOM</sub> |                     |
| Total remote sense compensation | 0.5                   |      |      | 0.5                           |       |      | Volts            | 0.25V max. neg. leg |
| OVP setpoint                    |                       | N/A  |      |                               | N/A   |      |                  |                     |
| Current limit                   | 105%                  |      | 135% | 105%                          |       | 125% | I <sub>NOM</sub> | Automatic restart   |
| Short circuit current           | 105%                  |      | 140% | 105%                          |       | 130% | I <sub>NOM</sub> |                     |

[a] 10V to 15V outputs, standard trim range ±10%. Consult factory for wider trim range. 95 Vout cannot be trimmed up.

## CONTROL PIN SPECIFICATIONS

| Parameter              | MegaMod Jr. (E-Grade) |       |     | MegaMod Jr. (C-, I-, M-Grade) |       |     | Units | Test Conditions    |
|------------------------|-----------------------|-------|-----|-------------------------------|-------|-----|-------|--------------------|
|                        | Min                   | Typ   | Max | Min                           | Typ   | Max |       |                    |
| Gate out impedance     |                       | 50    |     |                               | 50    |     | Ohms  |                    |
| Gate in impedance      |                       | 1,000 |     |                               | 1,000 |     | Ohms  |                    |
| Gate in high threshold |                       | 6     |     |                               | 6     |     | Volts | Use open collector |
| Gate in low threshold  | 0.65                  |       |     | 0.65                          |       |     | Volts |                    |
| Gate in low current    |                       |       | 6   |                               |       | 6   | mA    |                    |

## MegaMod Jr. Specifications (Cont.)

## DIELECTRIC WITHSTAND CHARACTERISTICS

| Parameter           | MegaMod Jr. (E-Grade) |     |     | MegaMod Jr. (C-, I-, M-Grade) |     |     | Unit             | Test Conditions   |
|---------------------|-----------------------|-----|-----|-------------------------------|-----|-----|------------------|-------------------|
|                     | Min                   | Typ | Max | Min                           | Typ | Max |                  |                   |
| Input to output     | 3,000                 |     |     | 3,000                         |     |     | V <sub>RMS</sub> | Baseplate earthed |
| Output to baseplate | 500                   |     |     | 500                           |     |     | V <sub>RMS</sub> |                   |
| Input to baseplate  | 1,500                 |     |     | 1,500                         |     |     | V <sub>RMS</sub> |                   |

## THERMAL CHARACTERISTICS

| Parameter            | MegaMod Jr. (E-Grade) |          |     | MegaMod Jr. (C-, I-, M-Grade) |          |     | Units   | Test Conditions |
|----------------------|-----------------------|----------|-----|-------------------------------|----------|-----|---------|-----------------|
|                      | Min                   | Typ      | Max | Min                           | Typ      | Max |         |                 |
| Efficiency           |                       | 78 – 88% |     |                               | 80 – 90% |     |         |                 |
| Baseplate to chassis |                       | 0.2      |     |                               | 0.2      |     | °C/Watt |                 |

## MECHANICAL SPECIFICATIONS

| Parameter | MegaMod Jr. (E-Grade) |            |     | MegaMod Jr. (C-, I-, M-Grade) |            |     | Units          | Test Conditions |
|-----------|-----------------------|------------|-----|-------------------------------|------------|-----|----------------|-----------------|
|           | Min                   | Typ        | Max | Min                           | Typ        | Max |                |                 |
| Weight    |                       |            |     |                               |            |     |                |                 |
| 1 Up      |                       | 4.5 (127)  |     |                               | 4.5 (127)  |     | Ounces (Grams) |                 |
| 2 Up      |                       | 8.8 (250)  |     |                               | 8.8 (250)  |     | Ounces (Grams) |                 |
| 3 Up      |                       | 13.3 (377) |     |                               | 13.3 (377) |     | Ounces (Grams) |                 |

## MegaMod Mechanical Specifications

### Inputs

|               |               |
|---------------|---------------|
| 1 -Input      | 5 Gate Out #2 |
| 2 Gate Out #1 | 6 Gate In #2  |
| 3 Gate In #1  | 7 Gate Out #3 |
| 4 +Input      | 8 Gate In #3  |

### Outputs

| Output #1 | Output #2 | Output #3 |
|-----------|-----------|-----------|
| A -Output | F -Output | L -Output |
| B -Sense* | G -Sense  | M -Sense  |
| C Trim*   | H Trim    | N Trim    |
| D +Sense* | J +Sense  | P +Sense  |
| E +Output | K +Output | Q +Output |

\*For Units with BatMod

B-IMON  
C-ITRIM  
D-VTRIM

### Inputs

### Outputs



Side view (all models)

### L- and LJ-Series

### L- and LJ-Series

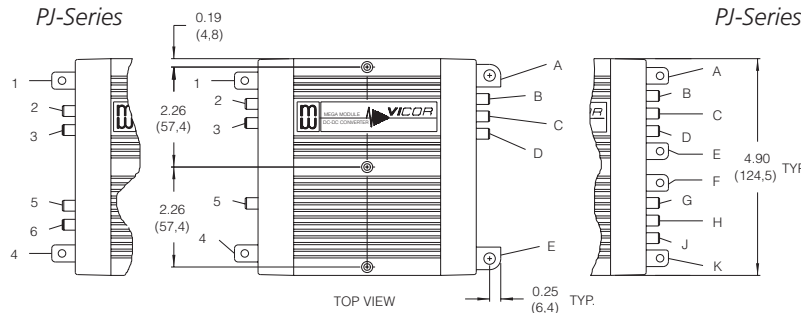


### P- and PJ-Series

### M-Series

### M-Series

### P- and PJ-Series



### Mounting Information

Use #6 machine hardware torqued to 5-7 in-lbs.

### R- and RJ-Series

### Q-Series

### N-Series

### N-Series

### Q-Series

### R- and RJ-Series



| Terminal and Product Model                           | Terminal Style | Screw Size | Recommended Torque |
|------------------------------------------------------|----------------|------------|--------------------|
| -Input, +Input<br>All models                         | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| -Output, +Output<br>L-, P-, R-, LJ-, PJ- & RJ-Series | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| M- & N-Series                                        | Metal          | 1/4-20 UNC | 65 in-lb (7.2 N-m) |
| Q-Series                                             | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| Supervisory<br>All models                            | Metal          | 1/4-20 UNC | 65 in-lb (7.2 N-m) |

Sized to accept AMP Faston® insulated receptacle #2-520184-2

## **Vicor's comprehensive line of power solutions includes high density AC-DC and DC-DC modules and accessory components, fully configurable AC-DC and DC-DC power supplies, and complete custom power systems.**

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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