

# Type AVE -40 °C to 85 °C General Purpose SMT Capacitors

## Aluminum Electrolytic Capacitors for Filtering and Bypass



Type AVE capacitors are a great value for filter and bypass applications not requiring wide temperature performance or high ripple current. Their vertical cylindrical cases facilitate automatic mounting and reflow soldering and offer a significant savings over tantalum capacitors.

### Highlights

- +85 °C, Up to 2000 Hour Load Life
- Low Impedance
- Voltage Range: 4 Vdc to 100 Vdc

### Specifications

- Operating Temperature:** -40 °C to +85 °C  
**Rated Voltage:** 4, 6.3, 10, 16, 25, 35, 50, 63 & 100 Vdc  
**Capacitance:** 0.1 µF to 1500 µF  
**Capacitance Tolerance:** ±20% @ 120 Hz and +20 °C  
**Leakage Current:** 0.01 CV or 3 µA @ +20 °C, after two minutes (whichever is greater)  
**Dissipation Factor:**

| 4V   | 6.3V | 10 V | 16 V | 25 V | 35 V | 50 V | 63 V | 100 V |
|------|------|------|------|------|------|------|------|-------|
| 0.42 | 0.28 | 0.24 | 0.20 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10  |

### Low Temperature Characteristics @ 120 Hz:

| Rated Voltage (Vdc) |                   | 4                 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|---------------------|-------------------|-------------------|-----|----|----|----|----|----|----|-----|
| Impedance           | Z(-25°C)/Z(+20°C) | 7                 | 4   | 3  | 2  | 2  | 2  | 2  | 2  | 2   |
|                     | Ratio             | Z(-40°C)/Z(+20°C) | 15  | 8  | 5  | 4  | 3  | 3  | 3  | 3   |

### Ripple Current Multipliers:



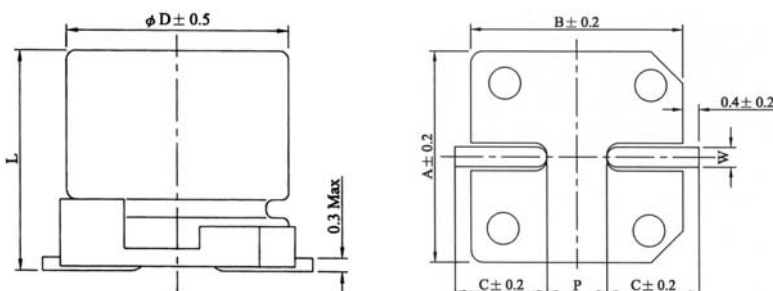
Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

| Frequency      | 50 Hz             | 120 Hz | 1 kHz | 10 kHz up |
|----------------|-------------------|--------|-------|-----------|
| <b>Vdc (V)</b> | <b>Multiplier</b> |        |       |           |
| ≤ 16           | 0.80              | 1.00   | 1.15  | 1.25      |
| 25 - 35        | 0.80              | 1.00   | 1.25  | 1.40      |
| 50 - 63        | 0.80              | 1.00   | 1.35  | 1.50      |
| 100            | 0.70              | 1.00   | 1.35  | 1.50      |

- Life Test:** 2000 h @ 85 °C  
 Δ Capacitance ±20% (4 WV: ±30%)  
 DF: ≤ 200% of limit (4 WV: ±30%)  
 DCL: ≤ 100% of limit

- Shelf Test:** 1000 h @ 85 °C  
 Δ Capacitance ±20% (4 WV: ±30%)  
 DF: ≤ 200% of limit (4 WV: ±30%)

### Outline Drawing



| Case Code | Dimensions in millimeters (mm) |         |      |      |     |            |       |
|-----------|--------------------------------|---------|------|------|-----|------------|-------|
|           | ∅ D                            | L       | A    | B    | C   | W          | P±0.2 |
| A         | 3                              | 5.3±0.2 | 3.3  | 3.3  | 1.5 | .45 ~ 0.75 | 0.8   |
| B         | 4                              | 5.3±0.2 | 4.3  | 4.3  | 2.0 | 0.5 to 0.8 | 1.0   |
| C         | 5                              | 5.3±0.2 | 5.3  | 5.3  | 2.3 | 0.5 to 0.8 | 1.5   |
| D         | 6.3                            | 5.3±0.2 | 6.6  | 6.6  | 2.7 | 0.5 to 0.8 | 2.0   |
| X         | 6.3                            | 7.7±0.3 | 6.6  | 6.6  | 2.7 | 0.5 to 0.8 | 2.0   |
| E         | 8                              | 6.5±0.3 | 8.4  | 8.4  | 3.4 | 0.5 to 0.8 | 2.3   |
| F         | 8                              | 10±0.5  | 8.4  | 8.4  | 3.0 | 0.7 to 1.1 | 3.1   |
| G         | 10                             | 10±0.5  | 10.4 | 10.4 | 3.3 | 0.7 to 1.1 | 4.7   |

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### Part Numbering System

|             |                             |                      |                                       |              |                          |                  |
|-------------|-----------------------------|----------------------|---------------------------------------|--------------|--------------------------|------------------|
| AVE         | 106                         | M                    | 16                                    | B            | 12T                      | -F               |
|             |                             |                      |                                       |              |                          |                  |
| <b>Type</b> | <b>Capacitance</b>          | <b>Capacitance</b>   | <b>Voltage</b>                        | <b>Case</b>  | <b>Packaging</b>         | <b>RoHS</b>      |
|             | <b>104</b> = 0.1 $\mu$ F    | <b>Tolerance</b>     | <b>04</b> = 4 Vdc <b>06</b> = 6.3 Vdc | <b>Code</b>  | <b>Information</b>       | <b>Compliant</b> |
|             | <b>105</b> = 1.0 $\mu$ F    | <b>M</b> = $\pm$ 20% | <b>10</b> = 10 Vdc <b>16</b> = 16 Vdc | <b>B</b> = B | <b>12</b> = Carrier Tape |                  |
|             | <b>106</b> = 10.0 $\mu$ F   |                      | <b>25</b> = 25 Vdc <b>35</b> = 35 Vdc |              | Width (mm)               |                  |
|             | <b>107</b> = 100.0 $\mu$ F  |                      | <b>50</b> = 50 Vdc <b>63</b> = 63 Vdc |              | <b>T</b> = Tape & Reel   |                  |
|             | <b>108</b> = 1000.0 $\mu$ F |                      | <b>2A</b> = 100 Vdc                   |              |                          |                  |

### Ratings

| Cap<br>( $\mu$ F)              | Catalog<br>Part Number | Max. DCL<br>2 min.<br>( $\mu$ A) | Max. DF<br>@120Hz/20°C<br>(%) | Max. E.S.R.<br>@120Hz/20°C<br>( $\Omega$ ) | Max.                                  | Case<br>Code | Size<br>D x L<br>(mm) | Qty.<br>Per Reel<br>(Each) |
|--------------------------------|------------------------|----------------------------------|-------------------------------|--|---------------------------------------|--------------|-----------------------|----------------------------|
|                                |                        |                                  |                               |  | Ripple Current<br>@120Hz/85°C<br>(mA) |              |                       |                            |
| <b>4 Vdc ( 5 Vdc Surge )</b>   |                        |                                  |                               |  |                                       |              |                       |                            |
| 22                             | AVE226M04A12T-F        | 3                                | 0.42                          | 31.65                                      | 14                                    | A            | 3x5.3                 | 2000                       |
| 33                             | AVE336M04B12T-F        | 3                                | 0.42                          | 21.10                                      | 31                                    | B            | 4x5.3                 | 2000                       |
| 47                             | AVE476M04B12T-F        | 3                                | 0.42                          | 14.81                                      | 37                                    | B            | 4x5.3                 | 2000                       |
| 68                             | AVE686M04C12T-F        | 3                                | 0.42                          | 10.24                                      | 63                                    | C            | 5x5.3                 | 1000                       |
| 100                            | AVE107M04D16T-F        | 4                                | 0.42                          | 6.96                                       | 110                                   | D            | 6.3x5.3               | 1000                       |
| <b>6.3 Vdc ( 8 Vdc Surge )</b> |                        |                                  |                               |  |                                       |              |                       |                            |
| 22                             | AVE226M06B12T-F        | 3                                | 0.28                          | 21.10                                      | 23                                    | B            | 4x5.3                 | 2000                       |
| 33                             | AVE336M06B12T-F        | 3                                | 0.28                          | 14.07                                      | 31                                    | B            | 4x5.3                 | 2000                       |
| 47                             | AVE476M06C12T-F        | 3                                | 0.28                          | 9.88                                       | 52                                    | C            | 5x5.3                 | 1000                       |
| 68                             | AVE686M06D16T-F        | 4.3                              | 0.28                          | 6.83                                       | 89                                    | D            | 6.3x5.3               | 1000                       |
| 100                            | AVE107M06D16T-F        | 6.3                              | 0.28                          | 4.64                                       | 120                                   | D            | 6.3x5.3               | 1000                       |
| 220                            | AVE227M06X16T-F        | 13.9                             | 0.28                          | 2.11                                       | 123                                   | X            | 6.3x7.7               | 1000                       |
| 220                            | AVE227M06E16T-F        | 13.9                             | 0.28                          | 2.11                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 330                            | AVE337M06X16T-F        | 20.8                             | 0.28                          | 1.41                                       | 139                                   | X            | 6.3x7.7               | 1000                       |
| 330                            | AVE337M06E16T-F        | 20.8                             | 0.28                          | 1.41                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 470                            | AVE477M06F24T-F        | 29.6                             | 0.28                          | 0.99                                       | 252                                   | F            | 8x10                  | 500                        |
| 1000                           | AVE108M06G24T-F        | 63.0                             | 0.28                          | 0.46                                       | 458                                   | G            | 10x10                 | 500                        |
| 1500                           | AVE158M06G24T-F        | 94.5                             | 0.28                          | 0.31                                       | 458                                   | G            | 10x10                 | 500                        |
| <b>10 Vdc ( 13 Vdc Surge )</b> |                        |                                  |                               |  |                                       |              |                       |                            |
| 10                             | AVE106M10B12T-F        | 3                                | 0.24                          | 39.79                                      | 23                                    | B            | 4x5.3                 | 2000                       |
| 22                             | AVE226M10C12T-F        | 3                                | 0.24                          | 18.09                                      | 39                                    | C            | 5x5.3                 | 1000                       |
| 33                             | AVE336M10C12T-F        | 3.3                              | 0.24                          | 12.06                                      | 48                                    | C            | 5x5.3                 | 1000                       |
| 47                             | AVE476M10D16T-F        | 4.7                              | 0.24                          | 8.47                                       | 67                                    | D            | 6.3x5.3               | 1000                       |
| 68                             | AVE686M10D16T-F        | 6.8                              | 0.24                          | 5.85                                       | 98                                    | D            | 6.3x5.3               | 1000                       |
| 100                            | AVE107M10X16T-F        | 10                               | 0.24                          | 3.98                                       | 108                                   | X            | 6.3x7.7               | 1000                       |
| 100                            | AVE107M10E16T-F        | 10                               | 0.24                          | 3.98                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 220                            | AVE227M10X16T-F        | 22                               | 0.24                          | 1.81                                       | 130                                   | X            | 6.3x7.7               | 1000                       |
| 220                            | AVE227M10E16T-F        | 22                               | 0.24                          | 1.81                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 330                            | AVE337M10F24T-F        | 33                               | 0.24                          | 1.21                                       | 252                                   | F            | 8x10                  | 500                        |
| 470                            | AVE477M10G24T-F        | 47                               | 0.24                          | 0.85                                       | 458                                   | G            | 10x10                 | 500                        |
| 1000                           | AVE108M10G24T-F        | 100                              | 0.24                          | 0.40                                       | 458                                   | G            | 10x10                 | 500                        |

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### Ratings

| Cap<br>( $\mu$ F)              | Catalog<br>Part Number | Max. DCL<br>2 min.<br>( $\mu$ A) | Max. DF<br>@120Hz/20°C<br>(%) | Max. E.S.R.<br>@120Hz/20°C<br>( $\Omega$ ) | Max.                                  | Case<br>Code | Size<br>D x L<br>(mm) | Qty.<br>Per Reel<br>(Each) |
|--------------------------------|------------------------|----------------------------------|-------------------------------|--|---------------------------------------|--------------|-----------------------|----------------------------|
|                                |                        |                                  |                               |  | Ripple Current<br>@120Hz/85°C<br>(mA) |              |                       |                            |
| <b>16 Vdc ( 20 Vdc Surge )</b> |                        |                                  |                               |  |                                       |              |                       |                            |
| 10                             | AVE106M16A12T-F        | 3.0                              | 0.2                           | 33.16                                      | 14                                    | A            | 3x5.3                 | 2000                       |
| 10                             | AVE106M16B12T-F        | 3.0                              | 0.2                           | 33.16                                      | 26                                    | B            | 4x5.3                 | 2000                       |
| 22                             | AVE226M16C12T-F        | 3.5                              | 0.2                           | 15.07                                      | 44                                    | C            | 5x5.3                 | 1000                       |
| 33                             | AVE336M16D16T-F        | 5.3                              | 0.2                           | 10.05                                      | 63                                    | D            | 6.3x5.3               | 1000                       |
| 47                             | AVE476M16D16T-F        | 7.5                              | 0.2                           | 7.05                                       | 75                                    | D            | 6.3x5.3               | 1000                       |
| 68                             | AVE686M16D16T-F        | 10.9                             | 0.2                           | 4.88                                       | 103                                   | D            | 6.3x5.3               | 1000                       |
| 100                            | AVE107M16X16T-F        | 16.0                             | 0.2                           | 3.32                                       | 108                                   | X            | 6.3x7.7               | 1000                       |
| 100                            | AVE107M16E16T-F        | 16.0                             | 0.2                           | 3.32                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 220                            | AVE227M16X16T-F        | 35.2                             | 0.2                           | 1.51                                       | 124                                   | X            | 6.3x7.7               | 1000                       |
| 220                            | AVE227M16F24T-F        | 35.2                             | 0.2                           | 1.51                                       | 252                                   | F            | 8x10                  | 500                        |
| 330                            | AVE337M16F24T-F        | 52.8                             | 0.2                           | 1.00                                       | 252                                   | F            | 8x10                  | 500                        |
| 470                            | AVE477M16G24T-F        | 75.2                             | 0.2                           | 0.71                                       | 458                                   | G            | 10x10                 | 500                        |
| <b>25 Vdc ( 31 Vdc Surge )</b> |                        |                                  |                               |  |                                       |              |                       |                            |
| 4.7                            | AVE475M25B12T-F        | 3.0                              | 0.14                          | 49.38                                      | 19                                    | B            | 4x5.3                 | 2000                       |
| 10                             | AVE106M25C12T-F        | 3.0                              | 0.14                          | 23.21                                      | 32                                    | C            | 5x5.3                 | 1000                       |
| 22                             | AVE226M25D16T-F        | 5.5                              | 0.14                          | 10.55                                      | 55                                    | D            | 6.3x5.3               | 1000                       |
| 33                             | AVE336M25D16T-F        | 8.3                              | 0.14                          | 7.03                                       | 67                                    | D            | 6.3x5.3               | 1000                       |
| 47                             | AVE476M25X16T-F        | 11.8                             | 0.14                          | 4.94                                       | 98                                    | X            | 6.3x7.7               | 1000                       |
| 47                             | AVE476M25E16T-F        | 11.8                             | 0.14                          | 4.94                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 68                             | AVE686M25X16T-F        | 17.0                             | 0.14                          | 3.41                                       | 109                                   | X            | 6.3x7.7               | 1000                       |
| 68                             | AVE686M25E16T-F        | 17.0                             | 0.14                          | 3.41                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 100                            | AVE107M25X16T-F        | 25.0                             | 0.14                          | 2.32                                       | 124                                   | X            | 6.3x7.7               | 1000                       |
| 100                            | AVE107M25E16T-F        | 25.0                             | 0.14                          | 2.32                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 220                            | AVE227M25F24T-F        | 55.0                             | 0.14                          | 1.06                                       | 252                                   | F            | 8x10                  | 500                        |
| 330                            | AVE337M25G24T-F        | 82.5                             | 0.14                          | 0.70                                       | 458                                   | G            | 10x10                 | 500                        |
| <b>35 Vdc ( 44 Vdc Surge )</b> |                        |                                  |                               |  |                                       |              |                       |                            |
| 3.3                            | AVE335M35A12T-F        | 3.0                              | 0.12                          | 60.28                                      | 8                                     | A            | 3x5.3                 | 2000                       |
| 4.7                            | AVE475M35B12T-F        | 3.0                              | 0.12                          | 42.33                                      | 20                                    | B            | 4x5.3                 | 2000                       |
| 10                             | AVE106M35C12T-F        | 3.5                              | 0.12                          | 19.89                                      | 34                                    | C            | 5x5.3                 | 1000                       |
| 22                             | AVE226M35D16T-F        | 7.7                              | 0.12                          | 9.04                                       | 59                                    | D            | 6.3x5.3               | 1000                       |
| 33                             | AVE336M35X16T-F        | 11.6                             | 0.12                          | 6.03                                       | 85                                    | X            | 6.3x7.7               | 1000                       |
| 33                             | AVE336M35E16T-F        | 11.6                             | 0.12                          | 6.03                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 47                             | AVE476M35X16T-F        | 16.5                             | 0.12                          | 4.23                                       | 98                                    | X            | 6.3x7.7               | 1000                       |
| 47                             | AVE476M35E16T-F        | 16.5                             | 0.12                          | 4.23                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 68                             | AVE686M35X16T-F        | 23.8                             | 0.12                          | 2.93                                       | 109                                   | X            | 6.3x7.7               | 1000                       |
| 68                             | AVE686M35E16T-F        | 23.8                             | 0.12                          | 2.93                                       | 155                                   | E            | 8x6.5                 | 1000                       |
| 100                            | AVE107M35F24T-F        | 35.0                             | 0.12                          | 1.99                                       | 252                                   | F            | 8x10                  | 500                        |
| 220                            | AVE227M35G24T-F        | 77.0                             | 0.12                          | 0.90                                       | 458                                   | G            | 10x10                 | 500                        |

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## Aluminum Electrolytic Capacitors for Filtering and Bypass

### Ratings

| Cap<br>( $\mu\text{F}$ )         | Catalog<br>Part Number | Max. DCL<br>2 min.<br>( $\mu\text{A}$ ) | Max. DF<br>@120Hz/20 $^{\circ}\text{C}$<br>(%) | Max. E.S.R.<br>@120Hz/20 $^{\circ}\text{C}$<br>( $\Omega$ ) | Max.   | Case<br>Code | Size<br>D x L<br>(mm) | Qty.<br>Per Reel<br>(Each) |
|----------------------------------|------------------------|---|--|---|--|--------------|-----------------------|----------------------------|
|                                  |                        |   |  |   | Ripple Current<br>@120Hz/85 $^{\circ}\text{C}$<br>(mA) |              |                       |                            |
| <b>50 Vdc ( 63 Vdc Surge )</b>   |                        |   |  |   |  |              |                       |                            |
| .10                              | AVE104M50B12T-F        | 3.0                                     | 0.1  | 1657.83   | 3  | B            | 4x5.3                 | 2000                       |
| .22                              | AVE224M50B12T-F        | 3.0                                     | 0.1  | 753.56  | 5  | B            | 4x5.3                 | 2000                       |
| .33                              | AVE334M50B12T-F        | 3.0                                     | 0.1  | 502.37  | 6  | B            | 4x5.3                 | 2000                       |
| .47                              | AVE474M50B12T-F        | 3.0                                     | 0.1  | 352.73  | 7  | B            | 4x5.3                 | 2000                       |
| 1                                | AVE105M50B12T-F        | 3.0                                     | 0.1  | 165.78  | 10   | B            | 4x5.3                 | 2000                       |
| 2.2                              | AVE225M50B12T-F        | 3.0                                     | 0.1  | 75.36   | 15   | B            | 4x5.3                 | 2000                       |
| 3.3                              | AVE335M50B12T-F        | 3.0                                     | 0.1  | 50.24   | 19   | B            | 4x5.3                 | 2000                       |
| 4.7                              | AVE475M50C12T-F        | 3.0                                     | 0.1  | 35.27   | 26   | C            | 5x5.3                 | 1000                       |
| 10                               | AVE106M50D16T-F        | 5.0                                     | 0.1  | 16.58   | 44   | D            | 6.3x5.3               | 1000                       |
| 22                               | AVE226M50X16T-F        | 11.0                                    | 0.1  | 7.54  | 65   | X            | 6.3x7.7               | 1000                       |
| 22                               | AVE226M50E16T-F        | 11.0                                    | 0.1  | 7.54  | 155  | E            | 8x6.5                 | 1000                       |
| 33                               | AVE336M50X16T-F        | 16.5                                    | 0.1  | 5.02  | 82   | X            | 6.3x7.7               | 1000                       |
| 33                               | AVE336M50E16T-F        | 16.5                                    | 0.1  | 5.02  | 155  | E            | 8x6.5                 | 1000                       |
| 47                               | AVE476M50X16T-F        | 23.5                                    | 0.1  | 3.53  | 98   | X            | 6.3x7.7               | 1000                       |
| 47                               | AVE476M50F24T-F        | 23.5                                    | 0.1  | 3.53  | 252  | F            | 8x10                  | 500                        |
| 68                               | AVE686M50F24T-F        | 34.0                                    | 0.1  | 2.44  | 252  | F            | 8x10                  | 500                        |
| 100                              | AVE107M50F24T-F        | 50.0                                    | 0.1  | 1.66  | 252  | F            | 8x10                  | 500                        |
| 220                              | AVE227M50G24T-F        | 110.0                                   | 0.1  | 0.75  | 458  | G            | 10x10                 | 500                        |
| <b>63 Vdc ( 75 Vdc Surge )</b>   |                        |   |  |   |  |              |                       |                            |
| 10                               | AVE106M63E16T-F        | 6.3                                     | 0.1  | 16.58   | 75   | E            | 8x6.5                 | 1000                       |
| 22                               | AVE226M63F24T-F        | 13.9                                    | 0.1  | 7.54  | 139  | F            | 8x10                  | 500                        |
| 33                               | AVE336M63F24T-F        | 20.8                                    | 0.1  | 5.02  | 139  | F            | 8x10                  | 500                        |
| 47                               | AVE476M63G24T-F        | 29.6                                    | 0.1  | 3.53  | 226  | G            | 10x10                 | 500                        |
| 68                               | AVE686M63G24T-F        | 42.8                                    | 0.1  | 2.44  | 226  | G            | 10x10                 | 500                        |
| 100                              | AVE107M63G24T-F        | 63.0                                    | 0.1  | 1.66  | 226  | G            | 10x10                 | 500                        |
| <b>100 Vdc ( 125 Vdc Surge )</b> |                        |   |  |   |  |              |                       |                            |
| 10                               | AVE106M2AF24T-F        | 10                                      | 0.1  | 16.58   | 94   | F            | 8x10                  | 500                        |
| 22                               | AVE226M2AG24T-F        | 22                                      | 0.1  | 7.54  | 189  | G            | 10x10                 | 500                        |
| 33                               | AVE336M2AG24T-F        | 33                                      | 0.1  | 5.02  | 189  | G            | 10x10                 | 500                        |

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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