

# Type WMF Polyester Film Capacitors

## Film/Foil, Axial Leads - Commercial, Industrial Applications



Type WMF axial-leaded, polyester film/foil capacitors, available in a wide range of capacitance and voltage ratings, offer excellent moisture resistance capability with extended foil, non-inductive wound sections, epoxy sealed ends and a sealed outer wrapper. Like the Type DMT, Type WMF is an ideal choice for most applications, especially those with high peak currents.

### Highlights

- Very high dV/dt
- Very high peak current
- Low inductance

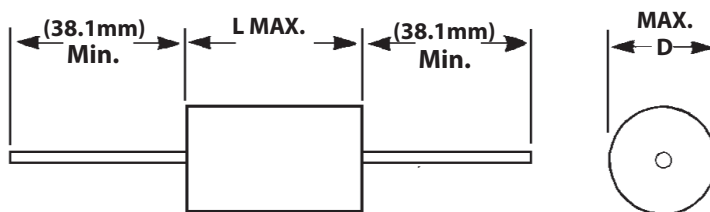
### Specifications

|                                         |                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|
| Capacitance Range                       | .001 to 5 $\mu$ F                                                                           |
| Capacitance Tolerance @ 1 kHz/25 °C     | $\pm 10\%$ (K) Standard Tolerance, $\pm 5\%$ (J)/ $\pm 20\%$ (M) (Optional)                 |
| Rated Voltage                           | 50 to 630 Vdc                                                                               |
| Operating Temperature Range with Ripple | -55 °C to 125 °C*<br>*Full rated voltage at 85 °C - derated linearly to 50% rated at 105 °C |
| Insulation Resistance                   | 30,000 M $\Omega$ x $\mu$ F, 100,000 M $\Omega$ Min.                                        |
| Dissipation Factor                      | .75% Max. (25 °C, 1 kHz)                                                                    |
| Dielectric Strength                     | 250%                                                                                        |
| Life Test                               | 500 Hours at 85 °C at 125% Rated Voltage                                                    |
| RoHS Compliant                          |                                                                                             |

### Construction Details

|                   |                                |
|-------------------|--------------------------------|
| Case Material     | UL510 Polyester Tape Wrap      |
| Resin Material    | UL94V-0 Epoxy Fill             |
| Terminal Material | Tin Plated Copper - Clad Steel |

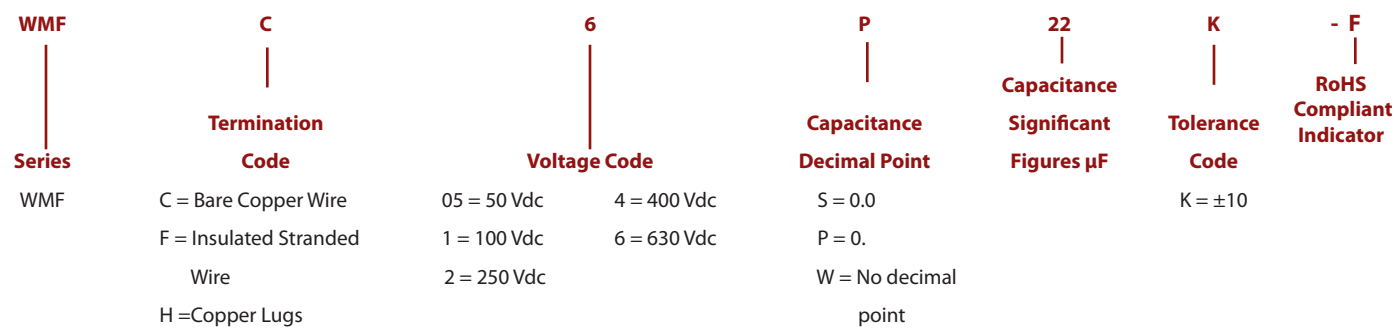
### Dimensions



# Type WMF Polyester Film Capacitors

## Film/Foil, Axial Leads

### Part Numbering System



### Ratings

**NOTE:** Other ratings, sizes and performance specifications are available. Contact us.

| Cap.<br>$\mu$ F | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu$ s |
|-----------------|------------------------|---------|---------|---------|---------------------|
| 50 Vdc          |                        |         |         |         |                     |
| 0.0820          | WMF05S82K-F            | 7.1     | 20.6    | 0.5     | 1500                |
| 0.1000          | WMF05P1K-F             | 7.1     | 20.6    | 0.5     | 1500                |
| 0.1200          | WMF05P12K-F            | 7.5     | 20.6    | 0.6     | 1500                |
| 0.1500          | WMF05P15K-F            | 8.0     | 20.6    | 0.6     | 1500                |
| 0.1800          | WMF05P18K-F            | 8.6     | 20.6    | 0.6     | 1500                |
| 0.2200          | WMF05P22K-F            | 9.1     | 20.6    | 0.6     | 1500                |
| 0.2700          | WMF05P27K-F            | 10.7    | 20.6    | 0.6     | 1500                |
| 0.3300          | WMF05P33K-F            | 10.9    | 20.6    | 0.6     | 1500                |
| 0.3900          | WMF05P39K-F            | 10.3    | 27.0    | 0.6     | 920                 |
| 0.4700          | WMF05P47K-F            | 10.3    | 27.0    | 0.6     | 920                 |
| 0.5000          | WMF05P5K-F             | 10.8    | 27.0    | 0.6     | 920                 |
| 0.5600          | WMF05P56K-F            | 12.2    | 27.0    | 0.6     | 920                 |
| 0.6800          | WMF05P68K-F            | 13.3    | 27.0    | 0.6     | 920                 |
| 0.8200          | WMF05P82K-F            | 14.4    | 27.0    | 0.6     | 920                 |
| 1.0000          | WMF05W1K-F             | 14.3    | 34.9    | 0.6     | 660                 |
| 1.2500          | WMF05W1P25K-F          | 14.6    | 34.9    | 0.8     | 660                 |
| 1.5000          | WMF05W1P5K-F           | 16.4    | 34.9    | 0.8     | 660                 |
| 2.0000          | WMF05W2K-F             | 16.8    | 41.3    | 0.8     | 660                 |
| 3.0000          | WMF05W3K-F             | 20.1    | 41.3    | 1.0     | 660                 |
| 4.0000          | WMF05W4K-F             | 20.9    | 46.3    | 1.0     | 310                 |
| 5.0000          | WMF05W5K-F             | 23.2    | 46.3    | 1.0     | 310                 |

| Cap.<br>$\mu$ F | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu$ s |
|-----------------|------------------------|---------|---------|---------|---------------------|
| 100 Vdc         |                        |         |         |         |                     |
| 0.0010          | WMF1D1K-F              | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0012          | WMF1D12K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0015          | WMF1D15K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0022          | WMF1D22K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0027          | WMF1D27K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0033          | WMF1D33K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0039          | WMF1D39K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0047          | WMF1D47K-F             | 5.0     | 14.3    | 0.5     | 6300                |
| 0.0050          | WMF1D5K-F              | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0056          | WMF1D56K-F             | 4.8     | 14.3    | 0.5     | 6300                |
| 0.0068          | WMF1D68K-F             | 5.1     | 14.3    | 0.5     | 6300                |
| 0.0082          | WMF1D82K-F             | 5.1     | 14.3    | 0.5     | 6300                |
| 0.0100          | WMF1S1K-F              | 5.1     | 14.3    | 0.5     | 6300                |
| 0.0150          | WMF1S15K-F             | 6.2     | 14.3    | 0.5     | 6300                |
| 0.0180          | WMF1S18K-F             | 6.6     | 14.3    | 0.6     | 3200                |
| 0.0220          | WMF1S22K-F             | 6.0     | 17.4    | 0.6     | 3200                |
| 0.0330          | WMF1S33K-F             | 6.5     | 17.4    | 0.6     | 3200                |
| 0.0390          | WMF1S39K-F             | 6.1     | 20.6    | 0.6     | 2100                |
| 0.0470          | WMF1S47K-F             | 6.5     | 20.6    | 0.6     | 2100                |
| 0.0500          | WMF1S5K-F              | 6.6     | 20.6    | 0.6     | 2100                |
| 0.0560          | WMF1S56K-F             | 6.7     | 20.6    | 0.6     | 2100                |

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## Film/Foil, Axial Leads

| Cap.<br>$\mu\text{F}$ | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu\text{s}$ | Cap.<br>$\mu\text{F}$ | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu\text{s}$ |
|-----------------------|------------------------|---------|---------|---------|---------------------------|-----------------------|------------------------|---------|---------|---------|---------------------------|
| <b>100 Vdc</b>        |                        |         |         |         |                           | 0.2700                | WMF2P27K-F             | 12.7    | 30.1    | 0.6     | 1900                      |
| 0.0680                | WMF1S68K-F             | 7.5     | 20.6    | 0.6     | 2100                      | 0.3300                | WMF2P33K-F             | 13.8    | 32.0    | 0.6     | 1500                      |
| 0.0820                | WMF1S82K-F             | 7.0     | 23.8    | 0.6     | 1600                      | 0.3900                | WMF2P39K-F             | 14.3    | 33.3    | 0.8     | 1500                      |
| 0.1000                | WMF1P1K-F              | 8.5     | 23.8    | 0.6     | 1600                      | 0.4700                | WMF2P47K-F             | 15.5    | 33.3    | 0.8     | 1500                      |
| 0.1200                | WMF1P12K-F             | 8.0     | 23.8    | 0.6     | 1600                      | 0.5600                | WMF2P56K-F             | 16.8    | 33.3    | 1.0     | 1500                      |
| 0.1500                | WMF1P15K-F             | 8.6     | 23.8    | 0.6     | 1600                      | 0.6800                | WMF2P68K-F             | 16.8    | 41.3    | 1.0     | 1500                      |
| 0.1800                | WMF1P18K-F             | 8.8     | 27.0    | 0.6     | 1600                      | 0.8200                | WMF2P82K-F             | 18.2    | 41.3    | 1.0     | 1500                      |
| 0.2200                | WMF1P22K-F             | 9.5     | 27.0    | 0.6     | 1600                      | 1.0000                | WMF2W1K-F              | 18.8    | 44.4    | 1.0     | 1500                      |
| 0.2700                | WMF1P27K-F             | 9.5     | 30.1    | 0.6     | 1600                      | 1.2500                | WMF2W1P25K-F           | 20.7    | 44.4    | 1.0     | 1500                      |
| 0.3300                | WMF1P33K-F             | 10.5    | 30.1    | 0.6     | 1600                      | 1.5000                | WMF2W1P5K-F            | 20.5    | 46.0    | 1.0     | 650                       |
| 0.3900                | WMF1P39K-F             | 10.9    | 30.1    | 0.6     | 1600                      | 2.0000                | WMF2W2K-F              | 24.5    | 47.6    | 1.0     | 650                       |
| 0.4700                | WMF1P47K-F             | 12.5    | 31.7    | 0.6     | 840                       | <b>400 Vdc</b>        |                        |         |         |         |                           |
| 0.5000                | WMF1P5K-F              | 11.7    | 31.7    | 0.6     | 840                       | 0.0010                | WMF4D1K-F              | 4.8     | 17.4    | 0.5     | 14400                     |
| 0.5600                | WMF1P56K-F             | 12.3    | 31.7    | 0.8     | 840                       | 0.0015                | WMF4D15K-F             | 4.8     | 17.4    | 0.5     | 14400                     |
| 0.6800                | WMF1P68K-F             | 14.5    | 31.7    | 0.8     | 840                       | 0.0018                | WMF4D18K-F             | 4.8     | 17.4    | 0.5     | 14400                     |
| 0.8200                | WMF1P82K-F             | 13.7    | 35.9    | 0.8     | 840                       | 0.0022                | WMF4D22K-F             | 4.8     | 17.4    | 0.5     | 14400                     |
| 1.0000                | WMF1W1K-F              | 17.0    | 38.1    | 1.0     | 840                       | 0.0027                | WMF4D27K-F             | 5.3     | 17.4    | 0.5     | 14400                     |
| 1.2500                | WMF1W1P25K-F           | 16.4    | 38.1    | 1.0     | 840                       | 0.0033                | WMF4D33K-F             | 5.6     | 17.4    | 0.5     | 14400                     |
| 1.5000                | WMF1W1P5K-F            | 18.7    | 41.3    | 1.0     | 840                       | 0.0039                | WMF4D39K-F             | 5.9     | 17.4    | 0.5     | 14400                     |
| 2.0000                | WMF1W2K-F              | 21.2    | 41.3    | 1.0     | 840                       | 0.0047                | WMF4D47K-F             | 6.0     | 17.4    | 0.5     | 14400                     |
| <b>200/250 Vdc</b>    |                        |         |         |         |                           | 0.0056                | WMF4D56K-F             | 6.7     | 17.4    | 0.6     | 14400                     |
| 0.0010                | WMF2D1K-F              | 4.8     | 14.3    | 0.5     | 7500                      | 0.0068                | WMF4D68K-F             | 7.2     | 17.4    | 0.6     | 14400                     |
| 0.0015                | WMF2D15K-F             | 4.8     | 14.3    | 0.5     | 7500                      | 0.0082                | WMF4D82K-F             | 7.7     | 17.4    | 0.6     | 14400                     |
| 0.0022                | WMF2D22K-F             | 4.8     | 14.3    | 0.5     | 7500                      | 0.0100                | WMF4S1K-F              | 8.4     | 17.4    | 0.6     | 14400                     |
| 0.0027                | WMF2D27K-F             | 4.8     | 14.3    | 0.5     | 7500                      | 0.0150                | WMF4S15K-F             | 9.9     | 17.4    | 0.6     | 14400                     |
| 0.0033                | WMF2D33K-F             | 4.8     | 14.3    | 0.5     | 7500                      | 0.0180                | WMF4S18K-F             | 8.0     | 20.6    | 0.6     | 14400                     |
| 0.0039                | WMF2D39K-F             | 4.8     | 14.3    | 0.5     | 7500                      | 0.0220                | WMF4S22K-F             | 8.9     | 20.6    | 0.6     | 7200                      |
| 0.0047                | WMF2D47K-F             | 5.1     | 14.3    | 0.5     | 7500                      | 0.0270                | WMF4S27K-F             | 9.6     | 20.6    | 0.6     | 7200                      |
| 0.0050                | WMF2D5K-F              | 5.1     | 14.3    | 0.5     | 7500                      | 0.0330                | WMF4S33K-F             | 9.5     | 22.2    | 0.6     | 6500                      |
| 0.0056                | WMF2D56K-F             | 5.1     | 14.3    | 0.5     | 7500                      | 0.0390                | WMF4S39K-F             | 10.2    | 22.2    | 0.6     | 6500                      |
| 0.0068                | WMF2D68K-F             | 5.1     | 14.3    | 0.5     | 7500                      | 0.0470                | WMF4S47K-F             | 11.0    | 22.2    | 0.6     | 6500                      |
| 0.0082                | WMF2D82K-F             | 5.5     | 14.3    | 0.5     | 7500                      | 0.0560                | WMF4S56K-F             | 9.8     | 27.0    | 0.6     | 3600                      |
| 0.0100                | WMF2S1K-F              | 5.8     | 14.3    | 0.5     | 7500                      | 0.0680                | WMF4S68K-F             | 10.3    | 27.0    | 0.6     | 3600                      |
| 0.0150                | WMF2S15K-F             | 6.7     | 14.3    | 0.6     | 7500                      | 0.0820                | WMF4S82K-F             | 10.3    | 27.0    | 0.6     | 3600                      |
| 0.0180                | WMF2S18K-F             | 7.1     | 14.3    | 0.6     | 7500                      | 0.1000                | WMF4P1K-F              | 12.4    | 27.0    | 0.6     | 3600                      |
| 0.0220                | WMF2S22K-F             | 6.6     | 17.4    | 0.6     | 3700                      | 0.1500                | WMF4P15K-F             | 13.6    | 31.7    | 0.6     | 2400                      |
| 0.0270                | WMF2S27K-F             | 6.6     | 17.4    | 0.6     | 3700                      | 0.1800                | WMF4P18K-F             | 13.6    | 34.9    | 0.6     | 2400                      |
| 0.0330                | WMF2S33K-F             | 7.0     | 20.6    | 0.6     | 2500                      | 0.2200                | WMF4P22K-F             | 15.1    | 34.9    | 0.8     | 2400                      |
| 0.0390                | WMF2S39K-F             | 7.5     | 20.6    | 0.6     | 2500                      | 0.2700                | WMF4P27K-F             | 15.5    | 38.1    | 0.8     | 2400                      |
| 0.0470                | WMF2S47K-F             | 7.5     | 20.6    | 0.6     | 2500                      | 0.3300                | WMF4P33K-F             | 15.9    | 41.3    | 0.8     | 2400                      |
| 0.0560                | WMF2S56K-F             | 7.5     | 20.6    | 0.6     | 2500                      | 0.3900                | WMF4P39K-F             | 15.9    | 41.3    | 0.8     | 2400                      |
| 0.0680                | WMF2S68K-F             | 8.0     | 20.6    | 0.6     | 2500                      | 0.4700                | WMF4P47K-F             | 18.5    | 41.3    | 1.0     | 2400                      |
| 0.0820                | WMF2S82K-F             | 7.6     | 23.8    | 0.6     | 1900                      | 0.5600                | WMF4P56K-F             | 19.2    | 44.4    | 1.0     | 2400                      |
| 0.1000                | WMF2P1K-F              | 8.1     | 23.8    | 0.6     | 1900                      | 0.6800                | WMF4P68K-F             | 20.8    | 44.4    | 1.0     | 2400                      |
| 0.1500                | WMF2P15K-F             | 9.5     | 23.8    | 0.6     | 1900                      | 0.8200                | WMF4P82K-F             | 22.7    | 44.4    | 1.0     | 2400                      |
| 0.2200                | WMF2P22K-F             | 10.5    | 30.1    | 0.6     | 1900                      | 1.0000                | WMF4W1K-F              | 22.7    | 50.8    | 1.0     | 1300                      |

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## Film/Foil, Axial Leads

| Cap.<br>$\mu\text{F}$ | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu\text{s}$ | Cap.<br>$\mu\text{F}$ | Catalog<br>Part Number | D<br>mm | L<br>mm | d<br>mm | dV/dt<br>V/ $\mu\text{s}$ |
|-----------------------|------------------------|---------|---------|---------|---------------------------|-----------------------|------------------------|---------|---------|---------|---------------------------|
| 1.2500                | WMF4W1P25K-F           | 25.1    | 50.8    | 1.0     | 1300                      | 0.0220                | WMF6S22K-F             | 8.5     | 23.8    | 0.6     | 5800                      |
| 1.5000                | WMF4W1P5K-F            | 25.3    | 58.7    | 1.0     | 1300                      | 0.0270                | WMF6S27K-F             | 9.3     | 23.8    | 0.6     | 5800                      |
| <b>600/630 Vdc</b>    |                        |         |         |         |                           | 0.0330                | WMF6S33K-F             | 10.0    | 25.4    | 0.6     | 5800                      |
| 0.0010                | WMF6D1K-F              | 5.0     | 20.6    | 0.5     | 9000                      | 0.0390                | WMF6S39K-F             | 10.0    | 25.4    | 0.6     | 5800                      |
| 0.0012                | WMF6D12K-F             | 5.1     | 20.6    | 0.5     | 9000                      | 0.0470                | WMF6S47K-F             | 10.9    | 25.4    | 0.6     | 5800                      |
| 0.0015                | WMF6D15K-F             | 5.1     | 20.6    | 0.5     | 9000                      | 0.0560                | WMF6S56K-F             | 11.7    | 25.4    | 0.6     | 5800                      |
| 0.0018                | WMF6D18K-F             | 5.1     | 20.6    | 0.5     | 9000                      | 0.0680                | WMF6S68K-F             | 12.7    | 25.4    | 0.8     | 5800                      |
| 0.0022                | WMF6D22K-F             | 5.5     | 20.6    | 0.5     | 9000                      | 0.0820                | WMF6S82K-F             | 12.9    | 34.9    | 0.8     | 3700                      |
| 0.0027                | WMF6D27K-F             | 5.5     | 20.6    | 0.5     | 9000                      | 0.1000                | WMF6P1K-F              | 14.7    | 34.9    | 0.8     | 3700                      |
| 0.0033                | WMF6D33K-F             | 5.8     | 20.6    | 0.5     | 9000                      | 0.1200                | WMF6P12K-F             | 16.0    | 34.9    | 0.8     | 3700                      |
| 0.0039                | WMF6D39K-F             | 6.1     | 20.6    | 0.5     | 9000                      | 0.1500                | WMF6P15K-F             | 17.4    | 34.9    | 1.0     | 3700                      |
| 0.0047                | WMF6D47K-F             | 6.6     | 20.6    | 0.5     | 9000                      | 0.1800                | WMF6P18K-F             | 16.9    | 41.3    | 1.0     | 3700                      |
| 0.0056                | WMF6D56K-F             | 6.9     | 20.6    | 0.6     | 9000                      | 0.2200                | WMF6P22K-F             | 18.3    | 41.3    | 1.0     | 3700                      |
| 0.0068                | WMF6D68K-F             | 7.4     | 20.6    | 0.6     | 9000                      | 0.2700                | WMF6P27K-F             | 20.1    | 41.3    | 1.0     | 3700                      |
| 0.0082                | WMF6D82K-F             | 7.4     | 20.6    | 0.6     | 9000                      | 0.3300                | WMF6P33K-F             | 19.0    | 50.8    | 1.0     | 1600                      |
| 0.0100                | WMF6S1K-F              | 7.4     | 20.6    | 0.6     | 9000                      | 0.3900                | WMF6P39K-F             | 20.7    | 50.8    | 1.0     | 1600                      |
| 0.0150                | WMF6S15K-F             | 7.5     | 23.8    | 0.6     | 5800                      | 0.4700                | WMF6P47K-F             | 22.5    | 50.8    | 1.0     | 1600                      |
| 0.0180                | WMF6S18K-F             | 8.0     | 23.8    | 0.6     | 5800                      | 0.5600                | WMF6P56K-F             | 24.2    | 50.8    | 1.0     | 1600                      |
|                       |                        |         |         |         |                           | 0.6800                | WMF6P68K-F             | 26.2    | 50.8    | 1.0     | 1600                      |
|                       |                        |         |         |         |                           | 0.8200                | WMF6P82K-F             | 29.5    | 50.8    | 1.0     | 1600                      |
|                       |                        |         |         |         |                           | 1.0000                | WMF6W1K-F              | 30.1    | 65.1    | 1.0     | 1600                      |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- 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.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- 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.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)