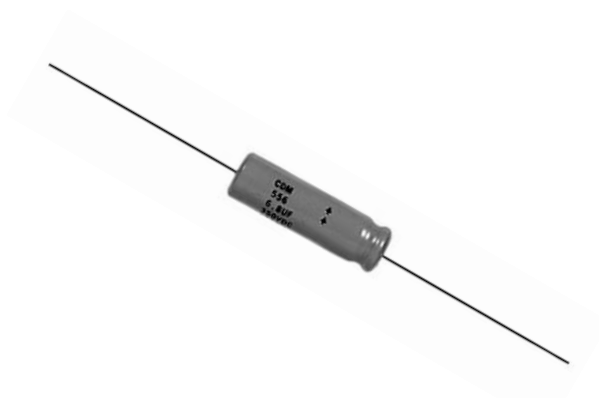


# Type 556, 105 °C, Computer Grade, Axial Leaded, Aluminum

## 105 °C, Computer Grade



Type 556 capacitors are designed for data processing, telecom and instrumentation applications requiring smaller size with extended temperature range. They have longer life and up to twice the ripple capability of +85 °C capacitors.

### Highlights

- w Small size
- w Extended life
- w Extended temperature
- w Twice ripple capability of +85 °C capacitors
- w Designed for data processing, telecom and instrumentation applications

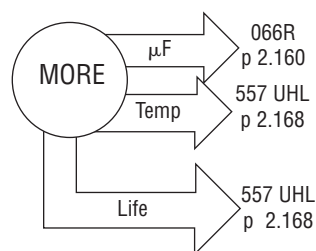
### Specifications

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Operating Temperature Range:</b> | −40 °C to +105 °C                                                   |
| <b>Rated Voltage Range:</b>         | 6.3 to 450 Vdc                                                      |
| <b>Capacitance:</b>                 | 1.5 μF to 12,000 μF                                                 |
| <b>Capacitance Tolerance:</b>       | ±20%                                                                |
| <b>Leakage Current:</b>             | 3-20 Vdc 0.1 $\sqrt{CV}$ +2 μA<br>25 Vdc & up 0.2 $\sqrt{CV}$ +2 μA |
| <b>Ripple Current:</b>              | <b>Ambient Temperature</b>                                          |

| 45 °C | 55 °C | 65 °C | 75 °C | 85 °C | 95 °C | 105 °C |
|-------|-------|-------|-------|-------|-------|--------|
| 1.50  | 1.46  | 1.32  | 1.17  | 1.00  | 0.79  | 0.50   |

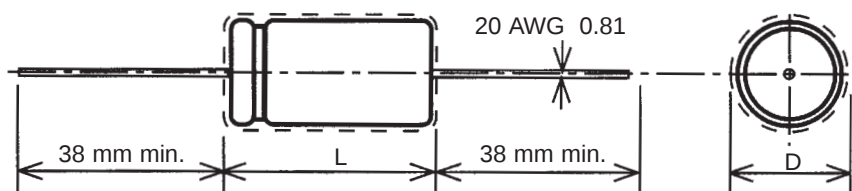
#### Frequency

|            | 50 Hz | 60 Hz | 120 Hz | 360 Hz | 1 kHz | 5 kHz | 10 kHz+ |
|------------|-------|-------|--------|--------|-------|-------|---------|
| 0-60 Vdc   | 0.85  | 1.00  | 1.10   | 1.15   | 1.15  | 1.15  | 1.15    |
| 61-150 Vdc | 0.83  | 1.00  | 1.15   | 1.20   | 1.20  | 1.20  | 1.20    |



|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| <b>Load Life:</b>  | 4,000 h @ +105 °C, capacitance ±20%, ESR 200% of limit, DCL 100% of limit |
| <b>Shelf Life:</b> | 100 h at 105 °C, capacitance, ESR & DCL, initial requirements.            |
| <b>Vibration:</b>  | 10 to 55 Hz; 0.06" and 10 g max, 2 h. in each plane                       |

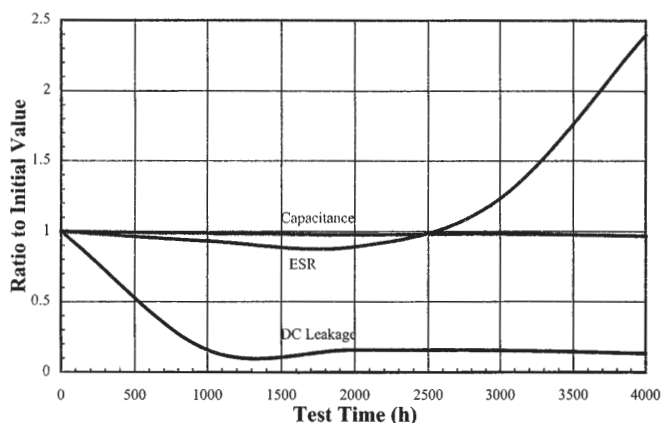
### Outline Drawings



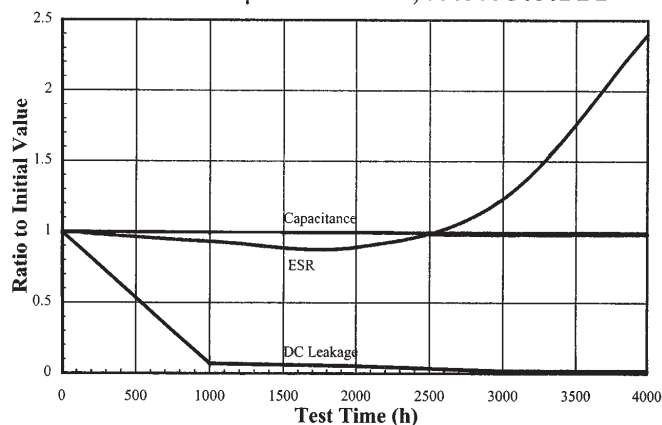
Aluminum  
Axial Leaded  
Capacitors

## Typical Performance Curves

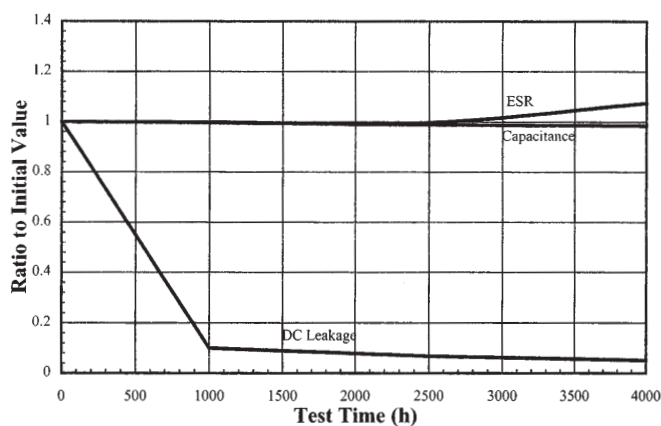
Life Test 150  $\mu$ F 16 V 105 °C, 556151U016DD2



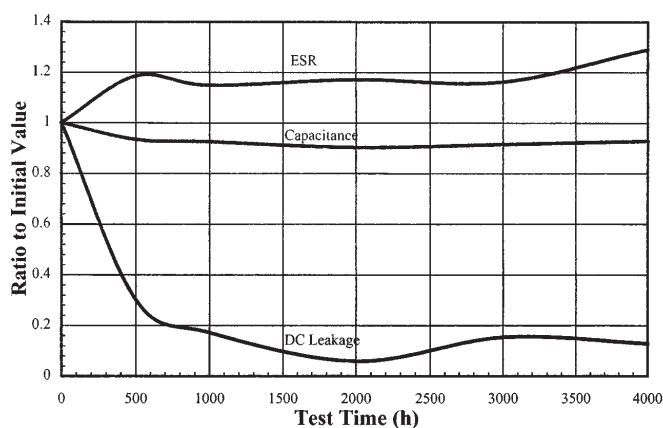
Life Test 50  $\mu$ F 50 V 105 °C, 556500U050DD2



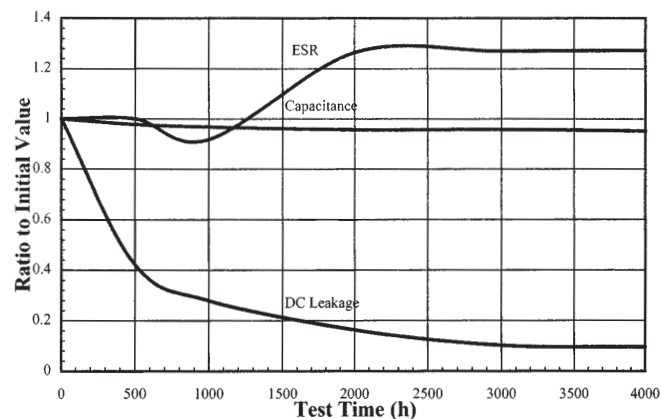
Life Test 10  $\mu$ F 150 V 105 °C, 556100U150DD2



Life Test 15  $\mu$ F 450 V 105 °C, 556150U450FH2



Life Test 22  $\mu$ F 450 V 105 °C, 556220U450LV2



# Type 556,105 °C Computer Grade, Axial Leaded, Aluminum

## Case Dimensions

| Case Code | Millimeters   |             |                |              |                              |              |
|-----------|---------------|-------------|----------------|--------------|------------------------------|--------------|
|           | Nominal       |             | Insulated      |              | Insulated with Epoxy Endseal |              |
|           | Diameter (mm) | Length (mm) | Diameter (max) | Length (max) | Diameter (max)               | Length (max) |
| BA        | 6.3           | 13.0        | 7.0            | 14.4         | 7.0                          | 15.9         |
| BB        | 6.3           | 17.5        | 7.0            | 19.2         | 7.0                          | 20.7         |
| CB        | 8.0           | 17.5        | 8.6            | 19.2         | 8.6                          | 20.7         |
| CC        | 8.0           | 20.5        | 8.6            | 22.3         | 8.6                          | 23.8         |
| DC        | 9.5           | 20.5        | 10.2           | 22.3         | 10.2                         | 23.8         |
| DD        | 9.5           | 24.0        | 10.2           | 25.5         | 10.2                         | 27.0         |
| DF        | 9.5           | 32.0        | 10.2           | 33.5         | 10.2                         | 35.0         |
| DH        | 9.5           | 38.0        | 10.2           | 39.8         | 10.2                         | 41.3         |
| MF        | 11.0          | 32.0        | 11.8           | 33.8         | 11.8                         | 35.0         |
| MH        | 11.0          | 38.0        | 11.8           | 39.8         | 13.1                         | 41.3         |
| EH        | 12.5          | 38.0        | 13.1           | 39.8         | 13.1                         | 41.3         |
| ER        | 12.5          | 44.0        | 13.1           | 46.5         | 13.1                         | 48.0         |
| FH        | 16.0          | 38.0        | 16.6           | 39.8         | 16.6                         | 41.3         |
| FR        | 16.0          | 44.5        | 16.6           | 46.5         | 16.6                         | 48.0         |
| LV        | 18.0          | 40.0        | 18.7           | 42.5         | 18.7                         | 43.0         |

## Part Numbering System

|             |                    |                  |                |                  |                   |                      |
|-------------|--------------------|------------------|----------------|------------------|-------------------|----------------------|
| <b>556</b>  | <b>123</b>         | <b>M</b>         | <b>6R3</b>     | <b>LV</b>        | <b>2</b>          | <b>E</b>             |
| <b>Type</b> | <b>Capacitance</b> | <b>Tolerance</b> | <b>Voltage</b> | <b>Case Code</b> | <b>Insulation</b> | <b>Epoxy Endseal</b> |
|             | 6R8=6.8 $\mu$ F    | M=±20%           | 6R3=6.3 Vdc    |                  | 0=Bare Can        | E = Epoxy Endseal    |
|             | 680=68 $\mu$ F     |                  | 063=63 Vdc     |                  | 1=Polyester       | (blank) = No Epoxy   |
|             | 681=680 $\mu$ F    |                  | 100=100 Vdc    |                  | 2=PVC             |                      |
|             | 682=6800 $\mu$ F   |                  |                |                  |                   |                      |
|             | 123=12,000 $\mu$ F |                  |                |                  |                   |                      |

## Ratings

| Cap. $\mu$ F                 | Catalog Number | ESR Max. $\Omega$ 120 Hz | Ripple A @ 85 °C 120 Hz | Nominal Size (mm) D x L |
|------------------------------|----------------|--------------------------|-------------------------|-------------------------|
| <b>6.3 Vdc (8 Vdc Surge)</b> |                |                          |                         |                         |
| 120                          | 556121M6R3BA2  | 3.60                     | 0.109                   | 6.3 x 13                |
| 220                          | 556221M6R3BB2  | 2.00                     | 0.180                   | 6.3 x 17.5              |
| 330                          | 556331M6R3CB2  | 1.29                     | 0.255                   | 8 x 17.5                |
| 470                          | 556471M6R3CC2  | 1.00                     | 0.338                   | 8 x 20.5                |
| 820                          | 556821M6R3DC2  | 0.64                     | 0.480                   | 9.5 x 20.5              |
| 1200                         | 556122M6R3DD2  | 0.37                     | 0.570                   | 9.5 x 24                |
| 1800                         | 556182M6R3DF2  | 0.27                     | 0.800                   | 9.5 x 32                |
| 2200                         | 556222M6R3DH2  | 0.23                     | 1.080                   | 9.5 x 38                |
| 3900                         | 556392M6R3MH2  | 0.16                     | 1.280                   | 11 x 38                 |
| 4700                         | 556472M6R3EH2  | 0.13                     | 1.640                   | 12.5 x 38               |
| 5600                         | 556562M6R3ER2  | 0.12                     | 1.780                   | 12.5 x 44.5             |
| 6800                         | 556682M6R3FH2  | 0.10                     | 2.000                   | 16 x 38                 |
| 10000                        | 556103M6R3FR2  | 0.09                     | 2.350                   | 16 x 44.5               |
| 12000                        | 556123M6R3LV2  | 0.08                     | 2.580                   | 18 x 44.5               |
| <b>10 Vdc (12 Vdc Surge)</b> |                |                          |                         |                         |
| 100                          | 556101M010BA2  | 3.70                     | 0.109                   | 6.3 x 13                |
| 180                          | 556181M010BB2  | 2.08                     | 0.175                   | 6.3 x 17.5              |
| 270                          | 556271M010CB2  | 1.60                     | 0.250                   | 8 x 17.5                |
| 390                          | 556391M010CC2  | 0.96                     | 0.350                   | 8 x 20.5                |
| 680                          | 556681M010DC2  | 0.57                     | 0.440                   | 9.5 x 20.5              |

| Cap. $\mu$ F                          | Catalog Number | ESR Max. $\Omega$ 120 Hz | Ripple A @ 85 °C 120 Hz | Nominal Size (mm) D x L |
|---------------------------------------|----------------|--------------------------|-------------------------|-------------------------|
| <b>10 Vdc (12 Vdc Surge) (cont'd)</b> |                |                          |                         |                         |
| 1000                                  | 556102M010DD2  | 0.41                     | 0.560                   | 9.5 x 24                |
| 1500                                  | 556152M010DF2  | 0.30                     | 0.785                   | 9.5 x 32                |
| 1800                                  | 556182M010DH2  | 0.27                     | 1.030                   | 9.5 x 38                |
| 2200                                  | 556222M010MF2  | 0.19                     | 1.160                   | 11 x 32                 |
| 3300                                  | 556332M010EH2  | 0.14                     | 1.600                   | 12.5 x 38               |
| 3300                                  | 556332M010MH2  | 0.15                     | 1.380                   | 11 x 38                 |
| 4700                                  | 556472M010ER2  | 0.12                     | 1.780                   | 12.5 x 44.5             |
| 5600                                  | 556562M010FH2  | 0.10                     | 2.000                   | 16 x 38                 |
| 8200                                  | 556822M010FR2  | 0.09                     | 2.340                   | 16 x 44.5               |
| 10000                                 | 556103M010LV2  | 0.08                     | 2.550                   | 18 x 40                 |
| <b>12 Vdc (15 Vdc Surge)</b>          |                |                          |                         |                         |
| 100                                   | 556101M012BA2  | 3.71                     | 0.108                   | 6.3 x 13                |
| 180                                   | 556181M012BB2  | 2.12                     | 0.168                   | 6.3 x 17.5              |
| 220                                   | 556221M012CB2  | 1.65                     | 0.245                   | 8 x 17.5                |
| 390                                   | 556391M012CC2  | 1.00                     | 0.330                   | 8 x 20.5                |
| 560                                   | 556561M012DC2  | 0.66                     | 0.425                   | 9.5 x 20.5              |
| 820                                   | 556821M012DD2  | 0.45                     | 0.550                   | 9.5 x 24                |
| 1200                                  | 556122M012DF2  | 0.32                     | 0.760                   | 9.5 x 32                |
| 1500                                  | 556152M012DH2  | 0.28                     | 0.955                   | 9.5 x 38                |

Aluminum  
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# Type 556,105 °C Computer Grade, Axial Leaded, Aluminum

## Ratings

| Cap.<br>μF                            | Catalog<br>Number | ESR Max.Ω<br>120 Hz | Ripple A<br>@ 85 °C<br>120 Hz | Nominal<br>Size (mm)<br>D x L |
|---------------------------------------|-------------------|---------------------|-------------------------------|-------------------------------|
| <b>12 Vdc (15 Vdc Surge) (cont'd)</b> |                   |                     |                               |                               |
| 2200                                  | 556222M012MF2     | 0.22                | 1.140                         | 11 x 32                       |
| 2700                                  | 556272M012MH2     | 0.15                | 1.380                         | 11 x 38                       |
| 3300                                  | 556332M012EH2     | 0.13                | 1.600                         | 12.5 x 38                     |
| 3900                                  | 556392M012ER2     | 0.12                | 1.780                         | 12.5 x 44.5                   |
| 6800                                  | 556682M012FR2     | 0.09                | 2.330                         | 16 x 44.5                     |
| 8200                                  | 556822M012LV2     | 0.08                | 2.550                         | 18 x 40                       |
| <b>16 Vdc (20 Vdc Surge)</b>          |                   |                     |                               |                               |
| 68                                    | 556680M016BA2     | 4.70                | 0.107                         | 6.3 x 13                      |
| 120                                   | 556121M016BB2     | 2.60                | 0.162                         | 6.3 x 17.5                    |
| 180                                   | 556181M016CB2     | 1.90                | 0.230                         | 8 x 17.5                      |
| 330                                   | 556331M016CC2     | 1.12                | 0.320                         | 8 x 20.5                      |
| 560                                   | 556561M016DC2     | 0.68                | 0.420                         | 9.5 x 20.5                    |
| 680                                   | 556681M016DD2     | 0.60                | 0.540                         | 9.5 x 24                      |
| 1000                                  | 556102M016DF2     | 0.38                | 0.740                         | 9.5 x 32                      |
| 1500                                  | 556152M016DH2     | 0.36                | 0.950                         | 9.5 x 38                      |
| 1800                                  | 556182M016MF2     | 0.24                | 1.070                         | 11 x 32                       |
| 2700                                  | 556272M016EH2     | 0.15                | 1.540                         | 12.5 x 38                     |
| 2700                                  | 556272M016MH2     | 0.16                | 1.380                         | 11 x 38                       |
| 3300                                  | 556332M016ER2     | 0.14                | 1.710                         | 12.5 x 44.5                   |
| 5600                                  | 556562M016FR2     | 0.08                | 2.320                         | 16 x 44.5                     |
| 6800                                  | 556682M016LV2     | 0.08                | 2.570                         | 18 x 40                       |
| <b>20 Vdc (25 Vdc Surge)</b>          |                   |                     |                               |                               |
| 68                                    | 556680M020BA2     | 4.80                | 0.105                         | 6.3 x 13                      |
| 120                                   | 556121M020BB2     | 2.60                | 0.161                         | 6.3 x 17.5                    |
| 150                                   | 556151M020CB2     | 2.10                | 0.218                         | 8 x 17.5                      |
| 270                                   | 556271M020CC2     | 1.22                | 0.305                         | 8 x 20.5                      |
| 470                                   | 556471M020DC2     | 0.7                 | 0.405                         | 9.5 x 20.5                    |
| 680                                   | 556681M020DD2     | 0.50                | 0.500                         | 9.5 x 24                      |
| 820                                   | 556821M020DF2     | 0.35                | 0.700                         | 9.5 x 32                      |
| 1200                                  | 556122M020DH2     | 0.25                | 0.900                         | 9.5 x 38                      |
| 1500                                  | 556152M020MF2     | 0.22                | 0.990                         | 11 x 32                       |
| 2200                                  | 556222M020EH2     | 0.18                | 1.370                         | 12.5 x 38                     |
| 2200                                  | 556222M020ER2     | 0.18                | 1.460                         | 12.5 x 44.5                   |
| 4700                                  | 556472M020FR2     | 0.09                | 2.320                         | 16 x 44.5                     |
| 5600                                  | 556562M020LV2     | 0.07                | 2.400                         | 18 x 40                       |
| <b>25 Vdc (35 Vdc Surge)</b>          |                   |                     |                               |                               |
| 77                                    | 556470M025BA2     | 6.00                | 0.093                         | 6.3 x 13                      |
| 82                                    | 556820M025BB2     | 3.50                | 0.140                         | 6.3 x 17.5                    |
| 100                                   | 556101M025CB2     | 3.00                | 0.180                         | 8 x 17.5                      |
| 180                                   | 556181M025CC2     | 2.00                | 0.260                         | 8 x 20.5                      |
| 270                                   | 556271M025DC2     | 1.10                | 0.360                         | 9.5 x 20.5                    |
| 390                                   | 556391M025DD2     | 0.80                | 0.450                         | 9.5 x 24                      |
| 560                                   | 556561M025DF2     | 0.54                | 0.615                         | 9.5 x 32                      |
| 820                                   | 556821M025DH2     | 0.38                | 0.825                         | 9.5 x 38                      |
| 1000                                  | 556102M025MF2     | 0.33                | 1.060                         | 11 x 32                       |
| 1200                                  | 556122M025MH2     | 0.27                | 1.090                         | 11 x 38                       |
| 1500                                  | 556152M025EH2     | 0.22                | 1.230                         | 12.5 x 38                     |
| 1800                                  | 556182M025ER2     | 0.19                | 1.440                         | 12.5 x 44.5                   |
| 3300                                  | 556332M025FR2     | 0.15                | 1.990                         | 16 x 44.5                     |
| 3900                                  | 556392M025LV2     | 0.13                | 2.220                         | 18 x 40                       |
| <b>35 Vdc (45 Vdc Surge)</b>          |                   |                     |                               |                               |
| 33                                    | 556330M035BA2     | 8.18                | 0.080                         | 6.3 x 13                      |
| 56                                    | 556560M035BB2     | 4.90                | 0.117                         | 6.3 x 17.5                    |
| 68                                    | 556680M035CB2     | 3.93                | 0.160                         | 8 x 17.5                      |
| 120                                   | 556121M035CC2     | 2.26                | 0.225                         | 8 x 20.5                      |
| 220                                   | 556221M035DC2     | 1.25                | 0.325                         | 9.5 x 20.5                    |
| 270                                   | 556271M035DD2     | 1.00                | 0.400                         | 9.5 x 24                      |
| 470                                   | 556471M035DF2     | 0.58                | 0.590                         | 9.5 x 32                      |
| 560                                   | 556561M035DH2     | 0.48                | 0.705                         | 9.5 x 3                       |

| Cap.<br>μF                            | Catalog<br>Number | ESR Max.Ω<br>120 Hz | Ripple A<br>@ 85 °C<br>120 Hz | Nominal<br>Size (mm)<br>D x L |
|---------------------------------------|-------------------|---------------------|-------------------------------|-------------------------------|
| <b>35 Vdc (45 Vdc Surge) (cont'd)</b> |                   |                     |                               |                               |
| 680                                   | 556681M035MF2     | 0.39                | 0.780                         | 11 x 32                       |
| 1000                                  | 556102M035MH2     | 0.28                | 1.020                         | 11 x 38                       |
| 1200                                  | 556122M035EH2     | 0.23                | 1.090                         | 12.5 x 38                     |
| 1500                                  | 556152M035ER2     | 0.19                | 1.400                         | 12.5 x 44.5                   |
| 2700                                  | 556272M035FR2     | 0.15                | 2.000                         | 16 x 44.5                     |
| 3300                                  | 556332M035LV2     | 0.14                | 2.180                         | 18 x 40                       |
| <b>40 Vdc (50 Vdc Surge)</b>          |                   |                     |                               |                               |
| 27                                    | 556270M040BA2     | 8.70                | 0.078                         | 6.3 x 13                      |
| 56                                    | 556560M040BB2     | 4.35                | 0.115                         | 6.3 x 17.5                    |
| 68                                    | 556680M040CB2     | 3.65                | 0.155                         | 8 x 17.5                      |
| 120                                   | 556121M040CC2     | 2.05                | 0.223                         | 8 x 20.5                      |
| 180                                   | 556181M040DC2     | 1.36                | 0.300                         | 9.5 x 20.5                    |
| 270                                   | 556271M040DD2     | 0.96                | 0.397                         | 9.5 x 24                      |
| 390                                   | 556391M040DF2     | 0.63                | 0.570                         | 9.5 x 32                      |
| 560                                   | 556561M040DH2     | 0.44                | 0.702                         | 9.5 x 38                      |
| 680                                   | 556681M040MF2     | 0.37                | 0.950                         | 11 x 32                       |
| 1000                                  | 556102M040EH2     | 0.24                | 1.080                         | 12.5 x 38                     |
| 1000                                  | 556102M040MH2     | 0.25                | 1.000                         | 11 x 38                       |
| 1200                                  | 556122M040ER2     | 0.21                | 1.330                         | 12.5 x 44.5                   |
| 2200                                  | 556222M040FR2     | 0.15                | 1.870                         | 16 x 44.5                     |
| 2700                                  | 556272M040LV2     | 0.14                | 2.070                         | 18 x 40                       |
| <b>50 Vdc (65 Vdc Surge)</b>          |                   |                     |                               |                               |
| 22                                    | 556220M050BA2     | 11.70               | 0.067                         | 6.3 x 13                      |
| 39                                    | 556390M050BB2     | 6.63                | 0.100                         | 6.3 x 17.5                    |
| 47                                    | 556470M050CB2     | 5.50                | 0.130                         | 8 x 17.5                      |
| 82                                    | 556820M050CC2     | 3.15                | 0.190                         | 8 x 20.5                      |
| 120                                   | 556121M050DC2     | 2.15                | 0.250                         | 9.5 x 20.5                    |
| 180                                   | 556181M050DD2     | 1.43                | 0.335                         | 9.5 x 24                      |
| 270                                   | 556271M050DF2     | 1.05                | 0.450                         | 9.5 x 32                      |
| 390                                   | 556391M050DH2     | 0.66                | 0.600                         | 9.5 x 38                      |
| 470                                   | 556471M050MF2     | 0.55                | 0.660                         | 11 x 32                       |
| 680                                   | 556681M050EH2     | 0.38                | 0.975                         | 12.5 x 38                     |
| 680                                   | 556681M050MH2     | 0.38                | 0.880                         | 11 x 38                       |
| 1000                                  | 556102M050ER2     | 0.26                | 1.210                         | 12.5 x 44.5                   |
| 1200                                  | 556122M050FH2     | 0.22                | 1.400                         | 16 x 38                       |
| 1500                                  | 556152M050FR2     | 0.18                | 1.670                         | 16 x 44.5                     |
| 1800                                  | 556182M050LV2     | 0.14                | 1.920                         | 18 x 40                       |
| <b>63 Vdc (75 Vdc Surge)</b>          |                   |                     |                               |                               |
| 18                                    | 556180M063BA2     | 13.60               | 0.060                         | 6.3 x 13                      |
| 33                                    | 556330M063BB2     | 7.50                | 0.090                         | 6.3 x 17.5                    |
| 39                                    | 556390M063CB2     | 6.30                | 0.120                         | 8 x 17.5                      |
| 68                                    | 556680M063CC2     | 3.50                | 0.175                         | 8 x 20.5                      |
| 100                                   | 556101M063DC2     | 2.40                | 0.242                         | 9.5 x 20.5                    |
| 150                                   | 556151M063DD2     | 1.63                | 0.300                         | 9.5 x 24                      |
| 220                                   | 556221M063DF2     | 1.08                | 0.420                         | 9.5 x 32                      |
| 330                                   | 556331M063DH2     | 0.72                | 0.575                         | 9.5 x 38                      |
| 390                                   | 556391M063MF2     | 0.63                | 0.652                         | 11 x 32                       |
| 470                                   | 556471M063MH2     | 0.51                | 0.750                         | 11 x 38                       |
| 560                                   | 556561M063EH2     | 0.42                | 0.880                         | 12.5 x 38                     |
| 820                                   | 556821M063ER2     | 0.30                | 1.130                         | 12.5 x 44.5                   |
| 1000                                  | 556102M063FH2     | 0.24                | 1.340                         | 16 x 38                       |
| 1200                                  | 556122M063FR2     | 0.20                | 1.560                         | 16 x 44.5                     |
| 1500                                  | 556152M063LV2     | 0.15                | 1.850                         | 18 x 40                       |
| <b>80 Vdc (100 Vdc Surge)</b>         |                   |                     |                               |                               |
| 5.6                                   | 5565R6M080BA2     | 28.40               | 0.043                         | 6.3 x 13                      |
| 10                                    | 556100M080BB2     | 15.80               | 0.070                         | 6.3 x 17.5                    |
| 15                                    | 556150M080CB2     | 10.60               | 0.097                         | 8 x 17.5                      |
| 22                                    | 556220M080CC2     | 7.23                | 0.126                         | 8 x 20.5                      |

Aluminum  
Axial Leaded  
Capacitors

# Type 556,105 °C Computer Grade, Axial Leaded, Aluminum

## Ratings

| Cap.<br>μF                             | Catalog<br>Number | ESR Max.Ω<br>120 Hz | Ripple A<br>@ 85 °C<br>120 Hz | Nominal<br>Size (mm)<br>D x L |
|----------------------------------------|-------------------|---------------------|-------------------------------|-------------------------------|
| <b>80 Vdc (100 Vdc Surge) (cont'd)</b> |                   |                     |                               |                               |
| 47                                     | 556470M080DC2     | 3.38                | 0.205                         | 9.5 x 20.5                    |
| 68                                     | 556680M080DD2     | 2.34                | 0.260                         | 9.5 x 24                      |
| 100                                    | 556101M080DF2     | 1.59                | 0.357                         | 9.5 x 32                      |
| 120                                    | 556121M080DH2     | 1.33                | 0.435                         | 9.5 x 38                      |
| 150                                    | 556151M080MF2     | 1.06                | 0.480                         | 11 x 32                       |
| 220                                    | 556221M080EH2     | 0.72                | 0.680                         | 12.5 x 38                     |
| 220                                    | 556221M080MH2     | 1.06                | 0.527                         | 11 x 38                       |
| 270                                    | 556271M080ER2     | 0.58                | 0.850                         | 12.5 x 44.5                   |
| 390                                    | 556391M080FH2     | 0.41                | 1.030                         | 16 x 38                       |
| 470                                    | 556471M080FR2     | 0.34                | 1.210                         | 16 x 44.5                     |
| 680                                    | 556681M080LV2     | 0.23                | 1.490                         | 18 x 44.5                     |
| <b>100 Vdc (125 Vdc Surge)</b>         |                   |                     |                               |                               |
| 3.9                                    | 5563R9M100BA2     | 40.70               | 0.035                         | 6.3 x 13                      |
| 6.8                                    | 5566R8M100BB2     | 23.70               | 0.054                         | 6.3 x 17.5                    |
| 12                                     | 556120M100CB2     | 13.30               | 0.080                         | 8 x 17.5                      |
| 15                                     | 556150M100CC2     | 10.60               | 0.100                         | 8 x 20.5                      |
| 33                                     | 556330M100DC2     | 4.81                | 0.145                         | 9.5 x 20.5                    |
| 47                                     | 556470M100DD2     | 3.38                | 0.205                         | 9.5 x 24                      |
| 68                                     | 556680M100DF2     | 2.33                | 0.280                         | 9.5 x 32                      |
| 100                                    | 556101M100DH2     | 1.59                | 0.385                         | 9.5 x 38                      |
| 150                                    | 556151M100EH2     | 1.06                | 0.585                         | 12.5 x 38                     |
| 150                                    | 556151M100MH2     | 1.06                | 0.505                         | 11 x 38                       |
| 220                                    | 556221M100ER2     | 0.72                | 0.715                         | 12.5 x 44.5                   |
| 390                                    | 556391M100FR2     | 0.40                | 1.110                         | 16 x 44.5                     |
| 470                                    | 556471M100LV2     | 0.34                | 1.240                         | 18 x 40                       |
| <b>150 Vdc (170 Vdc Surge)</b>         |                   |                     |                               |                               |
| 1.5                                    | 5561R5M150BA2     | 110.00              | 0.023                         | 6.3 x 13                      |
| 2.7                                    | 5562R7M150BB2     | 60.00               | 0.036                         | 6.3 x 17.5                    |
| 3.3                                    | 5563R3M150CB2     | 49.00               | 0.045                         | 8 x 17.5                      |
| 6.8                                    | 5566R8M150CC2     | 24.00               | 0.070                         | 8 x 20.5                      |
| 12                                     | 556120M150DC2     | 13.30               | 0.100                         | 9.5 x 20.5                    |
| 15                                     | 556150M150DD2     | 11.00               | 0.120                         | 9.5 x 24                      |
| 22                                     | 556220M150DF2     | 7.30                | 0.165                         | 9.5 x 32                      |
| 33                                     | 556330M150DH2     | 4.90                | 0.225                         | 9.5 x 38                      |
| 47                                     | 556470M150MH2     | 3.38                | 0.290                         | 11 x 38                       |
| 56                                     | 556560M150EH2     | 3.08                | 0.325                         | 12.5 x 38                     |
| 68                                     | 556680M150ER2     | 2.34                | 0.380                         | 12.5 x 44.5                   |
| 120                                    | 556121M150FR2     | 1.34                | 0.580                         | 16 x 44.5                     |
| 150                                    | 556151M150LV2     | 1.10                | 0.668                         | 18 x 40                       |
| <b>200 Vdc (250 Vdc Surge)</b>         |                   |                     |                               |                               |
| 1.2                                    | 5561R2M200BA2     | 132.00              | 0.022                         | 6.3 x 13                      |
| 2.7                                    | 5562R7M200BB2     | 60.00               | 0.035                         | 6.3 x 17.5                    |
| 3.3                                    | 5563R3M200CB2     | 50.00               | 0.045                         | 8 x 17.5                      |
| 5.6                                    | 5565R6M200CC2     | 28.00               | 0.065                         | 8 x 20.5                      |
| 10                                     | 556100M200DC2     | 15.90               | 0.090                         | 9.5 x 20.5                    |
| 12                                     | 556120M200DD2     | 12.00               | 0.105                         | 9.5 x 24                      |
| 18                                     | 556180M200DF2     | 9.10                | 0.150                         | 9.5 x 32                      |
| 27                                     | 556270M200DH2     | 6.00                | 0.200                         | 9.5 x 38                      |
| 39                                     | 556390M200EH2     | 4.00                | 0.288                         | 12.5 x 38                     |
| 39                                     | 556390M200MH2     | 4.50                | 0.250                         | 11 x 38                       |
| 56                                     | 556560M200ER2     | 2.85                | 0.350                         | 12.5 x 44.5                   |
| 68                                     | 556680M200FH2     | 2.36                | 0.425                         | 16 x 38                       |
| 100                                    | 556101M200FR2     | 1.60                | 0.550                         | 16 x 44.5                     |
| 120                                    | 556121M200LV2     | 1.33                | 0.610                         | 18 x 40                       |
| <b>250 Vdc (300 Vdc Surge)</b>         |                   |                     |                               |                               |
| 1                                      | 5561R0M250BA2     | 161.00              | 0.021                         | 6.3 x 13                      |
| 1.8                                    | 5561R8M250BB2     | 88.00               | 0.031                         | 6.3 x 17.5                    |
| 2.2                                    | 5562R2M250CB2     | 73.00               | 0.037                         | 8 x 17.5                      |
| 3.3                                    | 5563R3M250CC2     | 48.00               | 0.049                         | 8 x 20.5                      |

| Cap.<br>μF                              | Catalog<br>Number | ESR Max.Ω<br>120 Hz | Ripple A<br>@ 85 °C<br>120 Hz | Nominal<br>Size (mm)<br>D x L |
|-----------------------------------------|-------------------|---------------------|-------------------------------|-------------------------------|
| <b>250 Vdc (300 Vdc Surge) (cont'd)</b> |                   |                     |                               |                               |
| 6.8                                     | 5566R8M250DC2     | 23.50               | 0.078                         | 9.5 x 20.5                    |
| 8.2                                     | 5568R2M250DD2     | 19.40               | 0.090                         | 9.5 x 24                      |
| 12                                      | 556120M250DF2     | 13.20               | 0.125                         | 9.5 x 32                      |
| 18                                      | 556180M250DH2     | 8.80                | 0.165                         | 9.5 x 38                      |
| 27                                      | 556270M250MH2     | 6.00                | 0.215                         | 11 x 38                       |
| 33                                      | 556330M250EH2     | 4.80                | 0.240                         | 12.5 x 38                     |
| 39                                      | 556390M250ER2     | 4.00                | 0.305                         | 12.5 x 44.5                   |
| 68                                      | 556680M250FR2     | 2.30                | 0.425                         | 16 x 44.5                     |
| 82                                      | 556820M250LV2     | 2.00                | 0.500                         | 18 x 40                       |
| <b>300 Vdc (360 Vdc Surge)</b>          |                   |                     |                               |                               |
| 0.68                                    | 556R68M300BA2     | 235.00              | 0.016                         | 6.3 x 13                      |
| 1.2                                     | 5561R2M300BB2     | 133.00              | 0.024                         | 6.3 x 17.5                    |
| 1.5                                     | 5561R5M300CB2     | 107.00              | 0.030                         | 8 x 17.5                      |
| 2.2                                     | 5562R2M300CC2     | 73.00               | 0.040                         | 8 x 20.5                      |
| 3.9                                     | 5563R9M300DC2     | 41.00               | 0.055                         | 9.5 x 20.5                    |
| 5.6                                     | 5565R6M300DD2     | 28.60               | 0.070                         | 9.5 x 24                      |
| 8.2                                     | 5568R2M300DF2     | 19.50               | 0.100                         | 9.5 x 32                      |
| 10                                      | 556100M300DH2     | 16.00               | 0.120                         | 9.5 x 38                      |
| 18                                      | 556180M300MH2     | 8.90                | 0.175                         | 11 x 38                       |
| 22                                      | 556220M300EH2     | 7.27                | 0.200                         | 12.5 x 38                     |
| 27                                      | 556270M300ER2     | 5.90                | 0.250                         | 12.5 x 44.5                   |
| 47                                      | 556470M300FR2     | 3.40                | 0.375                         | 16 x 44.5                     |
| 68                                      | 556680M300LV2     | 2.40                | 0.450                         | 18 x 40                       |
| <b>350 Vdc (400 Vdc Surge)</b>          |                   |                     |                               |                               |
| 0.56                                    | 556R56M350BA2     | 284.00              | 0.014                         | 6.3 x 13                      |
| 1                                       | 5561R0M350BB2     | 159.00              | 0.022                         | 6.3 x 17.5                    |
| 1.2                                     | 5561R2M350CB2     | 132.00              | 0.027                         | 8 x 17.5                      |
| 1.8                                     | 5561R8M350CC2     | 88.40               | 0.036                         | 8 x 20.5                      |
| 3.3                                     | 5563R3M350DC2     | 48.00               | 0.054                         | 9.5 x 20.5                    |
| 4.7                                     | 5564R7M350DD2     | 33.80               | 0.065                         | 9.5 x 24                      |
| 6.8                                     | 5566R8M350D F2    | 23.50               | 0.077                         | 9.5 x 32                      |
| 10                                      | 556100M350DH2     | 15.90               | 0.120                         | 9.5 x 38                      |
| 18                                      | 556180M350MH2     | 8.84                | 0.175                         | 11 x 38                       |
| 22                                      | 556220M350E H2    | 7.23                | 0.210                         | 12.5 x 38                     |
| 27                                      | 556270M350ER2     | 6.00                | 0.250                         | 12.5 x 44.5                   |
| 39                                      | 556390M350FR2     | 4.18                | 0.340                         | 16 x 44.5                     |
| 56                                      | 556560M350LV2     | 3.00                | 0.400                         | 18 x 40                       |
| <b>400 Vdc (450 Vdc Surge)</b>          |                   |                     |                               |                               |
| 1.8                                     | 5561R8M400DC2     | 92.00               | 0.038                         | 9.5 x 20.5                    |
| 2.7                                     | 5562R7M400DD2     | 62.00               | 0.050                         | 9.5 x 24                      |
| 3.9                                     | 5563R9M400DF2     | 42.00               | 0.070                         | 9.5 x 32                      |
| 4.7                                     | 5564R7M400DH2     | 35.00               | 0.082                         | 9.5 x 38                      |
| 12                                      | 556120M400MH2     | 13.80               | 0.130                         | 11x 38                        |
| 18                                      | 556180M400EH2     | 9.20                | 0.175                         | 12.5 x 38                     |
| 22                                      | 556220M400ER2     | 7.60                | 0.220                         | 12.5 x 44.5                   |
| 27                                      | 556270M400FR2     | 6.10                | 0.250                         | 16 x 44.5                     |
| 47                                      | 556470M400LV2     | 3.50                | 0.375                         | 18 x 40                       |
| <b>450 Vdc (500 Vdc Surge)</b>          |                   |                     |                               |                               |
| 1.5                                     | 5561R5M450DC2     | 115.00              | 0.035                         | 9.5 x 20.5                    |
| 2.2                                     | 5562R2M450DD2     | 78.00               | 0.045                         | 9.5 x 24                      |
| 3.3                                     | 5563R3M450DF2     | 52.00               | 0.062                         | 9.5 x 32                      |
| 3.9                                     | 5563R9M450DH2     | 44.00               | 0.074                         | 9.5 x 38                      |
| 10                                      | 556100M450MH2     | 17.00               | 0.125                         | 11 x 38                       |
| 12                                      | 556120M450EH2     | 9.50                | 0.200                         | 12.5 x 38                     |
| 18                                      | 556180M450ER2     | 7.80                | 0.225                         | 12.5 x 44.5                   |
| 22                                      | 556220M450FR2     | 5.20                | 0.300                         | 16 x 44.5                     |
| 33                                      | 556330M450LV2     | 5.20                | 0.315                         | 18 x 40                       |

Aluminum  
Axial Leaded  
Capacitors

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