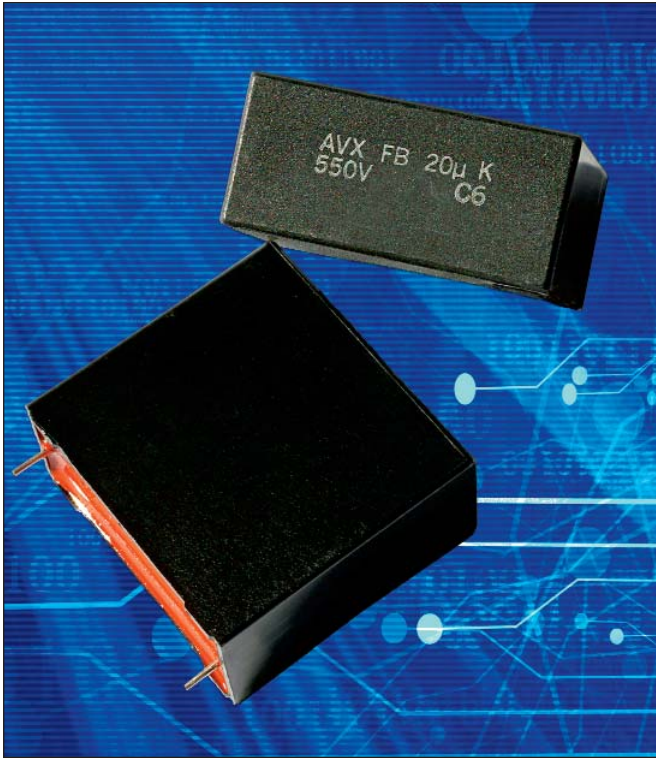


# Medium Power Film Capacitors



## FB (RoHS Compliant)



The FB series uses a non-impregnated metallized polypropylene dielectric specially treated to have a very high dielectric strength in operating conditions up to 100°C.

The FB has been designed for printed circuit board mounting. FB series performance characteristics make them a viable alternative to aluminum electrolytic technology due to much lower ESR and much higher surge voltage capability (dv/dt).

### APPLICATIONS

The FB capacitor is particularly designed for DC filtering, low reactive power.

### HOT SPOT CALCULATION

See *Hot Spot Temperature*, page 3.

$$\theta_{\text{hot spot}} = \theta_{\text{ambient}} + (P_d + P_t) \times R_{\text{th}}$$

with  $P_d$  (Dielectric losses) =  $Q \times \text{tg}\delta_0$   
 $Q \times \text{tg}\delta_0 \Rightarrow [ \frac{1}{2} \times C_n \times (V_{\text{peak to peak}})^2 \times f ] \times \text{tg}\delta_0$   
 $\text{tg}\delta_0$  (tan delta)

For polypropylene,  $\text{tg}\delta_0 = 2 \times 10^{-4}$  for frequencies up to 1MHz and is independent of temperatures.

$$P_t \text{ (Thermal losses)} = R_s \times (I_{\text{rms}})^2$$

where  $C_n$  in Farad     $I_{\text{rms}}$  in Ampere     $f$  in Hertz  
 $V$  in Volt     $R_s$  in Ohm     $\theta$  in °C  
 $R_{\text{th}}$  in °C/W

### PACKAGING MATERIAL

Self-extinguishing plastic case (V0 = in accordance with UL 94) filled thermosetting resin.

Self-extinguishing thermosetting resin (V0 = in accordance with UL 94; I3F2 = in accordance with NF F 16-101).

### STANDARDS

- IEC 61071-1, IEC 61071-2: Power electronic capacitors
- IEC 60384-16: Fixed metallized polypropylene film dielectric DC capacitors
- IEC 60384-16-1: Fixed metallized polypropylene film dielectric DC capacitors Assessment level E
- IEC 60384-17: Fixed metallized polypropylene film dielectric AC and pulse capacitors
- IEC 60384-17-1: Fixed metallized polypropylene film dielectric AC and pulse capacitors Assessment level E

### OPERATING TEMPERATURE RANGE

Operating temperature range: -40°C to +100°C

### LIFETIME EXPECTANCY

One unique feature of this technology (versus aluminum electrolytics) is how the capacitor reacts at the end of its lifetime.

Unlike aluminum electrolytic, film capacitors do not have a catastrophic failure mode. Film capacitors simply experience a parametric loss of capacitance of about 2% of initial value, with no risk of a short circuit.

The capacitor continues to be functional even after this 2% decrease.

# Medium Power Film Capacitors



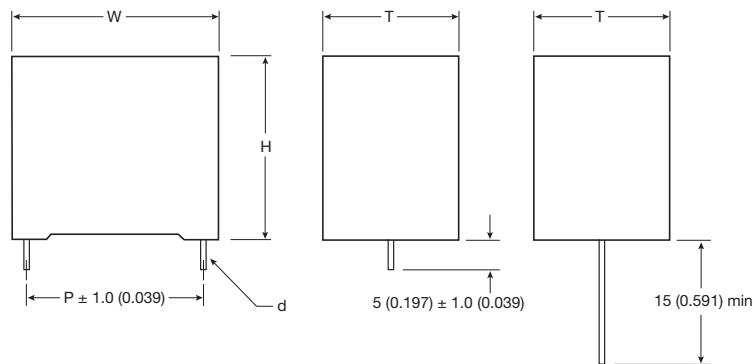
FB (RoHS Compliant)

## HOW TO ORDER

|               |   |   |                   |   |             |                                 |                                    |
|---------------|---|---|-------------------|---|-------------|---------------------------------|------------------------------------|
| <b>FB</b>     | <b>27</b>   | <b>A</b>                                      | <b>6</b>          | <b>K</b>  | <b>0335</b> | <b>K</b>                        | <b>C</b>                           |
| <b>Series</b> | <b>Pitch</b>  | <b>Case</b>                                   | <b>Dielectric</b> | <b>Voltage</b>  | <b>Cap</b>  | <b>Tolerance</b>                | <b>Lead Length</b>                 |
| FB            | 27 = 27.5 (1.083)<br>37 = 37.5 (1.476)<br>52 = 52.5 (2.067) | A H<br>B J<br>C K<br>D L<br>E M<br>F N<br>G P | 6 = Polypropylene | J = 550V<br>A = 700V<br>B = 800V<br>C = 900V<br>K = 1000V<br>L = 1100V<br>P = 1200V | μF Code     | J = ±5%<br>K = ±10%<br>M = ±20% | C = 5.00 (0.197)<br>L = 15 (0.591) |



## DIMENSIONS: millimeters (inches)



millimeters (inches)

| Case Size | W            | H            | T            | P            | d            |
|-----------|--------------|--------------|--------------|--------------|--------------|
| A         | 32.0 (1.260) | 20.0 (0.787) | 11.0 (0.433) | 27.5 (1.083) | 0.80 (0.031) |
| B         | 32.0 (1.260) | 22.0 (0.866) | 13.0 (0.512) | 27.5 (1.083) | 1.00 (0.039) |
| C         | 32.0 (1.260) | 24.5 (0.965) | 15.0 (0.591) | 27.5 (1.083) | 1.00 (0.039) |
| D         | 32.0 (1.260) | 25.0 (0.984) | 16.0 (0.630) | 27.5 (1.083) | 1.20 (0.047) |
| E         | 32.0 (1.260) | 28.0 (1.102) | 14.0 (0.551) | 27.5 (1.083) | 1.20 (0.047) |
| F         | 32.0 (1.260) | 33.0 (1.299) | 18.0 (0.709) | 27.5 (1.083) | 1.20 (0.047) |
| G         | 32.0 (1.260) | 37.0 (1.457) | 22.0 (0.866) | 27.5 (1.083) | 1.20 (0.047) |
| H         | 42.5 (1.673) | 33.5 (1.319) | 22.0 (0.866) | 37.5 (1.476) | 1.20 (0.047) |
| J         | 42.5 (1.673) | 37.0 (1.457) | 28.0 (1.102) | 37.5 (1.476) | 1.20 (0.047) |
| K         | 42.5 (1.673) | 40.0 (1.575) | 20.0 (0.787) | 37.5 (1.476) | 1.20 (0.047) |
| L         | 42.5 (1.673) | 44.0 (1.732) | 24.0 (0.945) | 37.5 (1.476) | 1.20 (0.047) |
| M         | 42.5 (1.673) | 45.0 (1.771) | 30.0 (1.181) | 37.5 (1.476) | 1.20 (0.047) |
| N         | 57.5 (2.264) | 45.0 (1.771) | 30.0 (1.181) | 52.5 (2.067) | 1.20 (0.047) |
| P         | 57.5 (2.264) | 50.0 (1.969) | 35.0 (1.378) | 52.5 (2.067) | 1.20 (0.047) |

## POLYPROPYLENE DIELECTRIC FOR INDUSTRIAL DC FILTERING

These capacitors have been designed primarily for high and medium power DC filtering applications.

## ELECTRICAL CHARACTERISTICS – POLYPROPYLENE DIELECTRIC

|                                       |  |
|---------------------------------------|--|
| Climatic category                     | 40/100/56 (IEC 60068)  |
| Test voltage between terminals @ 25°C | 1.5 x V <sub>n</sub> dc  |
| Capacitance range C <sub>n</sub>      | 0.68μF to 75μF   |
| Tolerance on C <sub>n</sub>           | ±5%, ±10%, ±20%  |
| Rated DC voltage V <sub>n</sub> dc    | 550 to 1200 V  |
| Dielectric                            | Polypropylene  |
| Insulation Resistance:                | >3,000 MΩ.μF/C after 1 minute electrification @ 100 Vdc & 25°C |
| Lifetime (ΔC/C ≤ 5%):                 | 100,000hrs @ Ur & 70°C   |



# Medium Power Film Capacitors



FB (RoHS Compliant)

## RATINGS AND PART NUMBER REFERENCE – POLYPROPYLENE DIELECTRIC

| Cap<br>(µF)  | Rated<br>Voltage (V) | Part Number   | Case<br>Size | W<br>±0.50 (0.020) | H<br>±0.50 (0.020) | T<br>±0.50 (0.020) | P<br>±1.00 (0.039) | d<br>±0.05 (0.002) | dv/dt<br>Volt/sec | I peak<br>Amps | I rms<br>Amps | ESR<br>mOhms | Packaging<br>Qty. |
|--|----------------------|---------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|----------------|---------------|--------------|-------------------|
| <b>Voltage V<sub>dc</sub> 550V Voltage Code: J</b> |                      |               |              |                    |                    |                    |                    |                    |                   |                |               |              |                   |
| 3.3  | 550                  | FB27A6J0335*# | A            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 89.1           | 5.0           | 22.0         | 150               |
| 5.0  | 550                  | FB27B6J0505*# | B            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 135.0          | 6.0           | 16.5         | 130               |
| 6.8  | 550                  | FB27C6J0685*# | C            | 32.0 (1.260)       | 24.5 (0.965)       | 15.0 (0.591)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 183.6          | 7.0           | 11.0         | 110               |
| 7.5  | 550                  | FB27E6J0755*# | E            | 32.0 (1.260)       | 28.0 (1.102)       | 14.0 (0.551)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 202.5          | 8.0           | 10.0         | 110               |
| 10   | 550                  | FB27F6J0106*# | F            | 32.0 (1.260)       | 33.0 (1.299)       | 18.0 (0.709)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 270.0          | 10.0          | 8.0          | 95                |
| 12   | 550                  | FB27F6J0126*# | F            | 32.0 (1.260)       | 33.0 (1.299)       | 18.0 (0.709)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 324.0          | 11.0          | 7.0          | 95                |
| 15   | 550                  | FB27G6J0156*# | G            | 32.0 (1.260)       | 37.0 (1.457)       | 22.0 (0.866)       | 27.5 (1.083)       | 0.80 (0.031)       | 27.0              | 405.0          | 12.0          | 6.0          | 80                |
| 20   | 550                  | FB37K6J0206*# | K            | 42.5 (1.673)       | 40.0 (1.575)       | 20.0 (0.787)       | 37.5 (1.476)       | 1.00 (0.039)       | 19.0              | 380.0          | 11.5          | 7.0          | 56                |
| 25   | 550                  | FB37J6J0256*# | J            | 42.5 (1.673)       | 37.0 (1.457)       | 28.0 (1.102)       | 37.5 (1.476)       | 1.00 (0.039)       | 19.0              | 475.0          | 12.0          | 6.5          | 35                |
| 30   | 550                  | FB37F6J0306*# | J            | 42.5 (1.673)       | 37.0 (1.457)       | 28.0 (1.102)       | 37.5 (1.476)       | 1.00 (0.039)       | 19.0              | 570.0          | 13.5          | 6.0          | 35                |
| 35   | 550                  | FB37M6J0356*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 19.0              | 665.0          | 15.0          | 5.5          | 44                |
| 40   | 550                  | FB37M6J0406*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 19.0              | 760.0          | 15.0          | 5.5          | 44                |
| 50   | 550                  | FB52N6J0506*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 12.5              | 625.0          | 14.0          | 6.5          | 25                |
| 60   | 550                  | FB52N6J0606*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 12.5              | 750.0          | 15.0          | 6.0          | 25                |
| 75   | 550                  | FB52P6J0756*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 12.5              | 937.5          | 16.0          | 5.5          | 20                |
| <b>Voltage V<sub>dc</sub> 700V Voltage Code: A</b> |                      |               |              |                    |                    |                    |                    |                    |                   |                |               |              |                   |
| 2.5  | 700                  | FB27A6A0255*# | A            | 32.0 (1.260)       | 20.0 (0.787)       | 11.0 (0.433)       | 27.5 (1.083)       | 0.80 (0.031)       | 31.0              | 77.5           | 3.5           | 28.0         | 150               |
| 3.3  | 700                  | FB27B6A0335*# | B            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 31.0              | 102.3          | 4.5           | 22.0         | 130               |
| 4.7  | 700                  | FB27C6A0475*# | C            | 32.0 (1.260)       | 24.5 (0.965)       | 15.0 (0.591)       | 27.5 (1.083)       | 0.80 (0.031)       | 31.0              | 145.7          | 5.5           | 15.0         | 110               |
| 10   | 700                  | FB27F6A0106*# | F            | 32.0 (1.260)       | 33.0 (1.299)       | 18.0 (0.709)       | 27.5 (1.083)       | 0.80 (0.031)       | 31.0              | 310.0          | 10.0          | 7.0          | 95                |
| 12   | 700                  | FB27G6A0126*# | G            | 32.0 (1.260)       | 37.0 (1.457)       | 22.0 (0.866)       | 27.5 (1.083)       | 0.80 (0.031)       | 31.0              | 372.0          | 11.5          | 6.0          | 80                |
| 15   | 700                  | FB37H6A0156*# | H            | 42.5 (1.673)       | 33.5 (1.319)       | 22.0 (0.866)       | 37.5 (1.476)       | 1.00 (0.039)       | 21.0              | 315.0          | 9.0           | 9.0          | 49                |
| 20   | 700                  | FB37J6A0206*# | J            | 42.5 (1.673)       | 37.0 (1.457)       | 28.0 (1.102)       | 37.5 (1.476)       | 1.00 (0.039)       | 21.0              | 420.0          | 11.0          | 7.0          | 35                |
| 22   | 700                  | FB37L6A0226*# | L            | 42.5 (1.673)       | 44.0 (1.732)       | 24.0 (0.984)       | 37.5 (1.476)       | 1.00 (0.039)       | 21.0              | 462.0          | 13.0          | 6.0          | 42                |
| 25   | 700                  | FB37L6A0256*# | L            | 42.5 (1.673)       | 44.0 (1.732)       | 24.0 (0.984)       | 37.5 (1.476)       | 1.00 (0.039)       | 21.0              | 525.0          | 13.5          | 5.5          | 42                |
| 30   | 700                  | FB37M6A0306*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 21.0              | 630.0          | 16.0          | 4.5          | 44                |
| 40   | 700                  | FB52N6A0406*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 14.5              | 580.0          | 13.0          | 6.5          | 25                |
| 45   | 700                  | FB52N6A0456*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 14.5              | 652.5          | 14.5          | 6.0          | 25                |
| 50   | 700                  | FB52P6A0506*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 14.5              | 725.0          | 15.0          | 5.5          | 20                |
| 55   | 700                  | FB52P6A0556*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 14.5              | 797.5          | 17.0          | 5.0          | 20                |
| 60   | 700                  | FB52P6A0606*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 14.5              | 870.0          | 18.0          | 4.5          | 20                |
| <b>Voltage V<sub>dc</sub> 800V Voltage Code: B</b> |                      |               |              |                    |                    |                    |                    |                    |                   |                |               |              |                   |
| 2.2  | 800                  | FB27A6B0225*# | A            | 32.0 (1.260)       | 20.0 (0.787)       | 11.0 (0.433)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 79.2           | 4.0           | 30.0         | 150               |
| 3.0  | 800                  | FB27C6B0305*# | C            | 32.0 (1.260)       | 24.5 (0.965)       | 15.0 (0.591)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 108.0          | 4.5           | 21.0         | 110               |
| 4.0  | 800                  | FB27B6B0405*# | B            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 144.0          | 5.5           | 16.0         | 130               |
| 5.0  | 800                  | FB27D6B0505*# | D            | 32.0 (1.260)       | 25.0 (0.984)       | 16.0 (0.630)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 180.0          | 7.0           | 13.0         | 100               |
| 6.8  | 800                  | FB27F6B0685*# | F            | 32.0 (1.260)       | 33.0 (1.299)       | 18.0 (0.709)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 244.8          | 8.5           | 12.0         | 95                |
| 7.5  | 800                  | FB27F6B0755*# | F            | 32.0 (1.260)       | 33.0 (1.299)       | 18.0 (0.709)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 270.0          | 9.5           | 11.0         | 95                |
| 10   | 800                  | FB27G6B0106*# | G            | 32.0 (1.260)       | 37.0 (1.457)       | 22.0 (0.866)       | 27.5 (1.083)       | 0.80 (0.031)       | 36.0              | 360.0          | 10.5          | 10.0         | 80                |
| 12   | 800                  | FB37H6B0126*# | H            | 42.5 (1.673)       | 33.5 (1.319)       | 22.0 (0.866)       | 37.5 (1.476)       | 1.00 (0.039)       | 24.0              | 288.0          | 8.5           | 11.0         | 49                |
| 15   | 800                  | FB37K6B0156*# | K            | 42.5 (1.673)       | 40.0 (1.575)       | 20.0 (0.787)       | 37.5 (1.476)       | 1.00 (0.039)       | 24.0              | 360.0          | 10.0          | 11.0         | 56                |
| 20   | 800                  | FB37L6B0206*# | L            | 42.5 (1.673)       | 44.0 (1.732)       | 24.0 (0.984)       | 37.5 (1.476)       | 1.00 (0.039)       | 24.0              | 480.0          | 13.0          | 6.0          | 42                |
| 22   | 800                  | FB37M6B0226*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 24.0              | 528.0          | 14.5          | 5.5          | 44                |
| 25   | 800                  | FB37M6B0256*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 24.0              | 600.0          | 15.5          | 5.0          | 44                |
| 30   | 800                  | FB52N6B0306*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 16.5              | 495.0          | 12.0          | 8.0          | 25                |
| 40   | 800                  | FB52P6B0406*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 16.5              | 660.0          | 14.5          | 6.0          | 20                |
| 47   | 800                  | FB52P6B0476*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 16.5              | 775.5          | 16.5          | 5.5          | 20                |
| <b>Voltage V<sub>dc</sub> 900V Voltage Code: C</b> |                      |               |              |                    |                    |                    |                    |                    |                   |                |               |              |                   |
| 2.2  | 900                  | FB27B6C0225*# | B            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 41.5              | 91.3           | 3.7           | 30.0         | 130               |
| 2.5  | 900                  | FB27B6C0255*# | B            | 32.0 (1.260)       | 22.0 (0.866)       | 13.0 (0.512)       | 27.5 (1.083)       | 0.80 (0.031)       | 41.5              | 103.8          | 4.3           | 26.0         | 130               |
| 3.0  | 900                  | FB27C6C0305*# | C            | 32.0 (1.260)       | 24.5 (0.965)       | 15.0 (0.591)       | 27.5 (1.083)       | 0.80 (0.031)       | 41.5              | 124.5          | 5.0           | 21.0         | 110               |
| 3.3  | 900                  | FB27E6C0335*# | E            | 32.0 (1.260)       | 28.0 (1.102)       | 14.0 (0.551)       | 27.5 (1.083)       | 0.80 (0.031)       | 41.5              | 137.0          | 5.0           | 20.0         | 110               |
| 7.5  | 900                  | FB27G6C0755*# | G            | 32.0 (1.260)       | 37.0 (1.457)       | 22.0 (0.866)       | 27.5 (1.083)       | 0.80 (0.031)       | 41.5              | 311.3          | 9.5           | 15.0         | 80                |
| 10   | 900                  | FB37H6C0106*# | H            | 42.5 (1.673)       | 33.5 (1.319)       | 22.0 (0.866)       | 37.5 (1.476)       | 1.00 (0.039)       | 28.0              | 280.0          | 8.5           | 12.0         | 49                |
| 15   | 900                  | FB37L6C0156*# | L            | 42.5 (1.673)       | 44.0 (1.732)       | 24.0 (0.984)       | 37.5 (1.476)       | 1.00 (0.039)       | 28.0              | 420.0          | 11.0          | 8.0          | 42                |
| 20   | 900                  | FB37M6C0206*# | M            | 42.5 (1.673)       | 45.0 (1.772)       | 30.0 (1.181)       | 37.5 (1.476)       | 1.20 (0.047)       | 28.0              | 560.0          | 14.0          | 6.0          | 44                |
| 25   | 900                  | FB52N6C0256*# | N            | 57.5 (2.264)       | 45.0 (1.772)       | 30.0 (1.181)       | 52.5 (2.067)       | 1.20 (0.047)       | 18.5              | 462.5          | 11.0          | 10.0         | 25                |
| 35   | 900                  | FB52P6C0356*# | P            | 57.5 (2.264)       | 50.0 (1.969)       | 35.0 (1.378)       | 52.5 (2.067)       | 1.20 (0.047)       | 18.5              | 647.5          | 14.5          | 7.0          | 20                |

\* Insert K for 10% capacitance tolerance (standard); J = +5% and M = +20% tolerances available on request.

# Insert C for 5.00 (0.197) lead length (standard); L = 15 (0.591) available on request.

Values outside this standard range may be available – please contact AVX for any special requirements.

AVX reserves the right to supply capacitors to a tighter capacitance tolerance or higher voltage rating, in the same case size.



# Medium Power Film Capacitors



## FB (RoHS Compliant)

| Cap (µF)  | Rated Voltage (V) | Part Number   | Case Size | W ±0.50 (0.020) | H ±0.50 (0.020) | T ±0.50 (0.020) | P ±1.00 (0.039) | d ±0.05 (0.002) | dv/dt Volt/sec | I peak Amps | I rms Amps | ESR mOhms | Packaging Qty. |
|---|-------------------|---------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-------------|------------|-----------|----------------|
| <b>Voltage V<sub>dc</sub> 1000V Voltage Code: K</b> |                   |               |           |                 |                 |                 |                 |                 |                |             |            |           |                |
| 1.5   | 1000              | FB27A6K0155*# | A         | 32.0 (1.260)    | 20.0 (0.787)    | 11.0 (0.433)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 70.5        | 4.5        | 42.3      | 150            |
| 2.0   | 1000              | FB27B6K0205*# | B         | 32.0 (1.260)    | 22.0 (0.866)    | 13.0 (0.512)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 94.0        | 5.5        | 38.5      | 130            |
| 2.5   | 1000              | FB27C6K0255*# | C         | 32.0 (1.260)    | 24.5 (0.965)    | 15.0 (0.591)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 117.5       | 6.0        | 22.6      | 110            |
| 3.0   | 1000              | FB27E6K0305*# | E         | 32.0 (1.260)    | 28.0 (1.102)    | 14.0 (0.551)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 141.0       | 7.0        | 18.4      | 110            |
| 4.7   | 1000              | FB27F6K0475*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 220.9       | 9.0        | 16.1      | 95             |
| 5.0   | 1000              | FB27F6K0505*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 235.0       | 9.0        | 15.0      | 95             |
| 6.8   | 1000              | FB27G6K0685*# | G         | 32.0 (1.260)    | 37.0 (1.457)    | 22.0 (0.866)    | 27.5 (1.083)    | 0.80 (0.031)    | 47.0           | 319.6       | 11.0       | 14.0      | 80             |
| 7.5   | 1000              | FB37H6K0755*# | H         | 42.5 (1.673)    | 33.5 (1.319)    | 22.0 (0.866)    | 37.5 (1.476)    | 1.00 (0.039)    | 31.0           | 232.5       | 10.0       | 14.0      | 49             |
| 9.0   | 1000              | FB37K6K0905*# | K         | 42.5 (1.673)    | 40.0 (1.57)     | 20.0 (0.787)    | 37.5 (1.476)    | 1.00 (0.039)    | 31.0           | 279.0       | 11.0       | 13.4      | 56             |
| 10  | 1000              | FB37K6K0106*# | K         | 42.5 (1.673)    | 40.0 (1.57)     | 20.0 (0.787)    | 37.5 (1.476)    | 1.00 (0.039)    | 31.0           | 310.0       | 11.0       | 12.8      | 56             |
| 12  | 1000              | FB37L6K0125*# | L         | 42.5 (1.673)    | 44.0 (1.732)    | 24.0 (0.945)    | 37.5 (1.476)    | 1.00 (0.039)    | 31.0           | 372.0       | 12.0       | 9.4       | 42             |
| 15  | 1000              | FB37M6K0156*# | M         | 42.5 (1.673)    | 45.0 (1.772)    | 30.0 (1.181)    | 37.5 (1.476)    | 1.20 (0.047)    | 31.0           | 465.0       | 14.0       | 8.0       | 44             |
| 22  | 1000              | FB52N6K0226*# | N         | 57.5 (2.264)    | 45.0 (1.772)    | 30.0 (1.181)    | 52.5 (2.067)    | 1.20 (0.047)    | 21.0           | 462.0       | 13.0       | 7.5       | 25             |
| 30  | 1000              | FB52P6K0306*# | P         | 57.5 (2.264)    | 50.0 (1.969)    | 35.0 (1.378)    | 52.5 (2.067)    | 1.20 (0.047)    | 21.0           | 630.0       | 14.0       | 7.0       | 20             |
| <b>Voltage V<sub>dc</sub> 1100V Voltage Code: L</b> |                   |               |           |                 |                 |                 |                 |                 |                |             |            |           |                |
| 1.2   | 1100              | FB27A6L0125*# | A         | 32.0 (1.260)    | 20.0 (0.787)    | 11.0 (0.433)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 84.0        | 3.4        | 40.5      | 150            |
| 1.5   | 1100              | FB27B6L0155*# | B         | 32.0 (1.260)    | 22.0 (0.866)    | 13.0 (0.512)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 105.0       | 3.8        | 34.3      | 130            |
| 2.0   | 1100              | FB27C6L0205*# | C         | 32.0 (1.260)    | 24.5 (0.965)    | 15.0 (0.591)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 140.0       | 4.5        | 23.0      | 110            |
| 2.2   | 1100              | FB27C6L0225*# | C         | 32.0 (1.260)    | 24.5 (0.965)    | 15.0 (0.591)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 154.0       | 4.9        | 21.6      | 110            |
| 2.5   | 1100              | FB27E6L0255*# | E         | 32.0 (1.260)    | 28.0 (1.102)    | 14.0 (0.551)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 175.0       | 5.3        | 19.3      | 110            |
| 3.3   | 1100              | FB27F6L0335*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 231.0       | 6.8        | 14.0      | 95             |
| 4.0   | 1100              | FB27F6L0405*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 280.0       | 8.0        | 11.5      | 95             |
| 4.7   | 1100              | FB27G6L0475*# | G         | 32.0 (1.260)    | 37.0 (1.457)    | 22.0 (0.866)    | 27.5 (1.083)    | 0.80 (0.031)    | 70.0           | 329.0       | 8.6        | 10.0      | 80             |
| 6.8   | 1100              | FB37H6L0685*# | H         | 42.5 (1.673)    | 33.5 (1.319)    | 22.0 (0.866)    | 37.5 (1.476)    | 1.00 (0.039)    | 45.0           | 306.0       | 11.0       | 14.0      | 49             |
| 7.5   | 1100              | FB37H6L0755*# | H         | 42.5 (1.673)    | 33.5 (1.319)    | 22.0 (0.866)    | 37.5 (1.476)    | 1.00 (0.039)    | 45.0           | 337.5       | 11.5       | 12.0      | 49             |
| 10  | 1100              | FB37L6L0106*# | L         | 42.5 (1.673)    | 44.0 (1.732)    | 24.0 (0.945)    | 37.5 (1.476)    | 1.00 (0.039)    | 45.0           | 450.0       | 14.0       | 9.0       | 42             |
| 12  | 1100              | FB37M6L0126*# | M         | 42.5 (1.673)    | 45.0 (1.772)    | 30.0 (1.181)    | 37.5 (1.476)    | 1.20 (0.047)    | 45.0           | 540.0       | 15.5       | 7.5       | 44             |
| 20  | 1100              | FB52N6L0206*# | N         | 57.5 (2.264)    | 45.0 (1.772)    | 30.0 (1.181)    | 52.5 (2.067)    | 1.20 (0.047)    | 23.0           | 460.0       | 14.0       | 9.0       | 25             |
| 22  | 1100              | FB52P6L0226*# | P         | 57.5 (2.264)    | 50.0 (1.969)    | 35.0 (1.378)    | 52.5 (2.067)    | 1.20 (0.047)    | 23.0           | 506.0       | 15.5       | 8.0       | 20             |
| 25  | 1100              | FB52P6L0256*# | P         | 57.5 (2.264)    | 50.0 (1.969)    | 35.0 (1.378)    | 52.5 (2.067)    | 1.20 (0.047)    | 23.0           | 575.0       | 16.0       | 7.0       | 20             |
| <b>Voltage V<sub>dc</sub> 1200V Voltage Code: P</b> |                   |               |           |                 |                 |                 |                 |                 |                |             |            |           |                |
| 0.68  | 1200              | FB27A6P0684*# | A         | 32.0 (1.260)    | 20.0 (0.787)    | 11.0 (0.433)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 54.4        | 2.2        | 65.4      | 150            |
| 1.0   | 1200              | FB27B6P0105*# | B         | 32.0 (1.260)    | 22.0 (0.866)    | 13.0 (0.512)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 80.0        | 3.0        | 43.0      | 130            |
| 1.5   | 1200              | FB27C6P0155*# | C         | 32.0 (1.260)    | 24.5 (0.965)    | 15.0 (0.591)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 120.0       | 4.0        | 32.3      | 110            |
| 2.0   | 1200              | FB27F6P0205*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 160.0       | 5.0        | 21.5      | 95             |
| 2.2   | 1200              | FB27F6P0225*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 176.0       | 5.5        | 19.8      | 95             |
| 2.5   | 1200              | FB27F6P0255*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 200.0       | 5.8        | 18.0      | 95             |
| 3.0   | 1200              | FB27F6P0305*# | F         | 32.0 (1.260)    | 33.0 (1.299)    | 18.0 (0.709)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 240.0       | 6.5        | 14.5      | 95             |
| 3.3   | 1200              | FB27G6P0335*# | G         | 32.0 (1.260)    | 37.0 (1.457)    | 22.0 (0.866)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 264.0       | 7.2        | 13.0      | 80             |
| 4.0   | 1200              | FB27G6P0405*# | G         | 32.0 (1.260)    | 37.0 (1.457)    | 22.0 (0.866)    | 27.5 (1.083)    | 0.80 (0.031)    | 80.0           | 320.0       | 8.0        | 11.0      | 80             |
| 4.7   | 1200              | FB37H6P0475*# | H         | 42.5 (1.673)    | 33.5 (1.319)    | 22.0 (0.866)    | 37.5 (1.476)    | 1.00 (0.039)    | 55.0           | 258.5       | 6.3        | 20.0      | 49             |
| 5.0   | 1200              | FB37H6P0505*# | H         | 42.5 (1.673)    | 33.5 (1.319)    | 22.0 (0.866)    | 37.5 (1.476)    | 1.00 (0.039)    | 55.0           | 275.0       | 6.5        | 17.0      | 49             |
| 6.8   | 1200              | FB37L6P0685*# | L         | 42.5 (1.673)    | 44.0 (1.732)    | 24.0 (0.945)    | 37.5 (1.476)    | 1.00 (0.039)    | 55.0           | 374.0       | 8.0        | 14.3      | 42             |
| 7.5   | 1200              | FB37L6P0755*# | L         | 42.5 (1.673)    | 44.0 (1.732)    | 24.0 (0.945)    | 37.5 (1.476)    | 1.00 (0.039)    | 55.0           | 412.5       | 8.8        | 11.3      | 42             |
| 10  | 1200              | FB37M6P0106*# | M         | 42.5 (1.673)    | 45.0 (1.772)    | 30.0 (1.181)    | 37.5 (1.476)    | 1.20 (0.047)    | 55.0           | 550.0       | 11.0       | 8.5       | 44             |
| 12  | 1200              | FB52N6P0126*# | N         | 57.5 (2.264)    | 45.0 (1.772)    | 30.0 (1.181)    | 52.5 (2.067)    | 1.20 (0.047)    | 35.0           | 420.0       | 9.0        | 14.0      | 25             |
| 15  | 1200              | FB52N6P0156*# | N         | 57.5 (2.264)    | 45.0 (1.772)    | 30.0 (1.181)    | 52.5 (2.067)    | 1.20 (0.047)    | 35.0           | 525.0       | 10.0       | 11.0      | 25             |
| 20  | 1200              | FB52P6P0206*# | P         | 57.5 (2.264)    | 50.0 (1.969)    | 35.0 (1.378)    | 52.5 (2.067)    | 1.20 (0.047)    | 35.0           | 700.0       | 13.0       | 8.5       | 20             |

\* Insert K for 10% capacitance tolerance (standard); J = +5% and M = +20% tolerances available on request.

# Insert C for 5.00 (0.197) lead length (standard); L = 15 (0.591) available on request.

Values outside this standard range may be available – please contact AVX for any special requirements.

AVX reserves the right to supply capacitors to a tighter capacitance tolerance or higher voltage rating, in the same case size.



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

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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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