

# PHE427

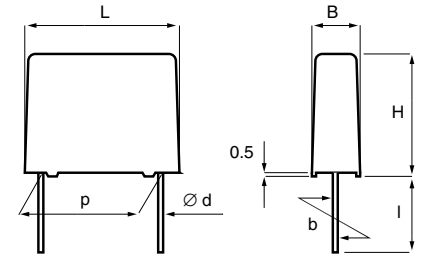
- Double metallized film pulse capacitor, polypropylene dielectric
- According to IEC 60384-17 Grade 1.1

## TYPICAL APPLICATIONS

High frequency applications with high current stress, such as deflection circuits in TV-sets, protection circuits in SMPS and in electronic ballasts.

## CONSTRUCTION

Polypropylene dielectric with double metallized polyester film as electrodes. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.



## TECHNICAL DATA

|  |        |          |          |          |          |
|--|--------|----------|----------|----------|----------|
| <b>Rated voltage <math>U_R</math>, VDC</b>         | 160    | 250      | 400      | 630      | 1000     |
| <b>Rated voltage <math>U_R</math>, VAC</b>         | 100    | 160      | 220      | 300      | 375      |
| <b>Capacitance range, <math>\mu\text{F}</math></b> | 0.047– | 0.00068– | 0.00068– | 0.00068– | 0.00068– |
|  | 6.8    | 4.7      | 2.2      | 1.2      | 0.0082   |

**Capacitance values** In accordance with IEC E12 series.  
**Capacitance tolerance**  $\pm 5\%$  standard. Other tolerances on request

**Category temperature range**  $-55^\circ\text{C}$  to  $+105^\circ\text{C}$

**Rated temperature**  $+85^\circ\text{C}$

**Voltage derating** The rated voltage is decreased with  $1.3\% / ^\circ\text{C}$  between  $+85^\circ\text{C}$  and  $+105^\circ\text{C}$

**Climatic category** 55/105/56

**Insulation resistance** Measured at  $23^\circ\text{C}$ , 100 VDC 60s for  $U_R < 500\text{ VDC}$  and at 500 VDC for  $U_R \geq 500\text{ VDC}$   
 Between terminals:  
 $C \leq 0.33\ \mu\text{F}$ :  $\geq 100\ 000\ \text{M}\Omega$   
 $C > 0.33\ \mu\text{F}$ :  $\geq 30\ 000\ \text{s}$   
 Between terminals and case:  
 $\geq 100\ 000\ \text{M}\Omega$

**Dissipation factor  $\tan\delta$**  Maximum values at  $23^\circ\text{C}$

|         | $C \leq 0.1\ \mu\text{F}$ | $0.1\ \mu\text{F} < C \leq 1.0\ \mu\text{F}$ | $C > 1.0\ \mu\text{F}$ |
|---------|---------------------------|--|------------------------|
| 1 kHz   | 0.03 %                    | 0.03 %                                       | 0.03 %                 |
| 10 kHz  | 0.04 %                    | 0.06 %                                       | –                      |
| 100 kHz | 0.15 %                    | –  | –                      |

**Inductance** Approximately 6 nH/cm for the total length of capacitor winding and the leads.

**Pulse rise time** The capacitors can withstand an unlimited number of pulses with a  $dU/dt$  according to the article table. For peak to peak voltages lower than the rated voltage ( $U_{pp} < U_R$ ), the specified  $dU/dt$  can be multiplied by  $U_R/U_{pp}$ .

| p              | d   | std l           | max l | b         |
|----------------|-----|-----------------|-------|-----------|
| $7.5 \pm 0.4$  | 0.6 | 5 <sup>-1</sup> | 30    | $\pm 0.4$ |
| $10.0 \pm 0.4$ | 0.6 | 5 <sup>-1</sup> | 30    | $\pm 0.4$ |
| $15.0 \pm 0.4$ | 0.8 | 6 <sup>-1</sup> | 30    | $\pm 0.4$ |
| $22.5 \pm 0.4$ | 0.8 | 6 <sup>-1</sup> | 30    | $\pm 0.4$ |
| $27.5 \pm 0.4$ | 0.8 | 6 <sup>-1</sup> | 30    | $\pm 0.4$ |
| $37.5 \pm 0.5$ | 1.0 | 6 <sup>-1</sup> | 30    | $\pm 0.7$ |

## ENVIRONMENTAL TEST DATA

**Vibration** According to IEC 60068-2-6 test Fc. 10–500 Hz for lead space  $\leq 22.5\text{ mm}$ , 10–55 Hz for lead space  $\geq 27.5\text{ mm}$ . 6 h with 0.75 mm amplitude or  $98\ \text{m/s}^2$  (depending on frequency) with the capacitor mounted on PCB with the supporting area in contact with the PCB.

**Climatic sequence** According to IEC 60384-1.

**Bump** According to IEC 60068-2-29 test Eb. 4000 bumps at  $390\ \text{m/s}^2$  with the capacitor mounted on PCB with the supporting area in contact with the PCB.

**Humidity** According to IEC 60068-2-3 test Ca, severity 56 days.

ARTICLE TABLE

| Capacitance<br>µF           | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Weight<br>g | Max<br>dU/dt<br>V/µs | Rthha °C/W<br>85 °C<br>0.2 m/s | Article code       |
|-----------------------------|----------------------|------|------|------|----------------------|------|------|------|-------------|----------------------|--------------------------------|--------------------|
|                             | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |             |                      |                                |                    |
| <b>160 VDC/100 VAC</b>      |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| <b>LEAD SPACING 10 MM</b>   |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 0.047                       | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 400                  | 116                            | PHE427FA5470JR05   |
| 0.056                       | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 400                  | 116                            | PHE427FA5560JR05   |
| 0.068                       | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 400                  | 115                            | PHE427FA5680JR05   |
| <b>LEAD SPACING 15 MM</b>   |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 0.082                       | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 200                  | 100                            | PHE427FB5820JR06   |
| 0.10                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 200                  | 98                             | PHE427FB6100JR06   |
| 0.12                        | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.7         | 200                  | 85                             | PHE427FB6120JR06   |
| 0.15                        | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 2.0         | 200                  | 82                             | PHE427FB6150JR06   |
| 0.18                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 200                  | 74                             | PHE427FB6180JR06   |
| 0.22                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 200                  | 72                             | PHE427FB6220JR06   |
| 0.27                        | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 200                  | 65                             | PHE427FB6270JR06   |
| 0.33                        | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 200                  | 64                             | PHE427FB6330JR06   |
| <b>LEAD SPACING 22.5 MM</b> |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 0.22                        | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3.2         | 100                  | 58                             | PHE427FD6220JR06L2 |
| 0.27                        | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3.9         | 100                  | 53                             | PHE427FD6270JR06L2 |
| 0.33                        | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3.9         | 100                  | 52                             | PHE427FD6330JR06L2 |
| 0.39                        | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 4.3         | 100                  | 52                             | PHE427FD6390JR06L2 |
| 0.47                        | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 4.3         | 100                  | 52                             | PHE427FD6470JR06L2 |
| 0.56                        | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5.6         | 100                  | 46                             | PHE427FD6560JR06L2 |
| 0.68                        | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5.6         | 100                  | 46                             | PHE427FD6680JR06L2 |
| 0.82                        | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8.0         | 100                  | 40                             | PHE427FD6820JR06L2 |
| 1.0                         | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8.0         | 100                  | 39                             | PHE427FD7100JR06L2 |
| <b>LEAD SPACING 27.5 MM</b> |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 1.0                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.8         | 60                   | 37                             | PHE427FF7100JR06L2 |
| 1.2                         | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10.6        | 60                   | 34                             | PHE427FF7120JR06L2 |
| 1.5                         | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10.6        | 60                   | 34                             | PHE427FF7150JR06L2 |
| 1.8                         | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 19.7        | 60                   | 28                             | PHE427FF7180JR06L2 |
| 2.2                         | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 19.7        | 60                   | 27                             | PHE427FF7220JR06L2 |
| <b>LEAD SPACING 37.5 MM</b> |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 1.8                         | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 16.6        | 50                   | 27                             | PHE427FR7180JR06L2 |
| 2.2                         | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 20.8        | 50                   | 26                             | PHE427FR7220JR06L2 |
| 2.7                         | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 20.8        | 50                   | 25                             | PHE427FR7270JR06L2 |
| 3.3                         | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 20.8        | 50                   | 25                             | PHE427FR7330JR06L2 |
| 3.9                         | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 28.1        | 50                   | 21                             | PHE427FR7390JR06L2 |
| 4.7                         | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 28.1        | 50                   | 20                             | PHE427FR7470JR06L2 |
| 5.6                         | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 36.5        | 50                   | 18                             | PHE427FR7560JR06L2 |
| 6.8                         | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 36.5        | 50                   | 18                             | PHE427FR7680JR06L2 |
| <b>250 VDC/160 VAC</b>      |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| <b>LEAD SPACING 7.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                      |                                |                    |
| 0.00068                     | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK3680JR05   |
| 0.00082                     | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK3820JR05   |
| 0.0010                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4100JR05   |
| 0.0012                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4120JR05   |
| 0.0015                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4150JR05   |
| 0.0018                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4180JR05   |
| 0.0022                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4220JR05   |
| 0.0027                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4270JR05   |
| 0.0033                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4330JR05   |
| 0.0039                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4390JR05   |
| 0.0047                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4470JR05   |
| 0.0056                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4560JR05   |
| 0.0068                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4680JR05   |
| 0.0082                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK4820JR05   |
| 0.010                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                  | 160                            | PHE427HK5100JR05   |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$ | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Weight<br>g | Max<br>$dU/dt$<br>V/ $\mu\text{s}$ | Rthha °C/W<br>85 °C<br>0.2 m/s | Article code       |
|------------------------------|----------------------|------|------|------|----------------------|------|------|------|-------------|------------------------------------|--------------------------------|--------------------|
|                              | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |             |                                    |                                |                    |
| <b>250 VDC/160 VAC</b>       |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| <b>LEAD SPACING 7.5 MM</b>   |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 0.012                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                                | 160                            | PHE427HK5120JR05   |
| 0.015                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                                | 160                            | PHE427HK5150JR05   |
| 0.018                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                                | 160                            | PHE427HK5180JR05   |
| 0.022                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 800                                | 160                            | PHE427HK5220JR05   |
| 0.027                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 800                                | 160                            | PHE427HK5270JR05   |
| 0.033                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 800                                | 160                            | PHE427HK5330JR05   |
| 0.039                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 800                                | 160                            | PHE427HK5390JR05   |
| 0.047                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 800                                | 160                            | PHE427HK5470JR05   |
| 0.056                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 800                                | 160                            | PHE427HK5560JR05   |
| 0.068                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 800                                | 160                            | PHE427HK5680JR05   |
| <b>LEAD SPACING 10 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 0.015                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 400                                | 142                            | PHE427HA5150JR05   |
| 0.018                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 400                                | 142                            | PHE427HA5180JR05   |
| 0.022                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 400                                | 142                            | PHE427HA5220JR05   |
| 0.027                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 400                                | 139                            | PHE427HA5270JR05   |
| 0.033                        | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 0.9         | 400                                | 121                            | PHE427HA5330JR05   |
| 0.039                        | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 400                                | 116                            | PHE427HA5390JR05   |
| <b>LEAD SPACING 15 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 0.047                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 600                                | 100                            | PHE427HB5470JR06   |
| 0.056                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 600                                | 100                            | PHE427HB5560JR06   |
| 0.068                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 600                                | 98                             | PHE427HB5680JR06   |
| 0.082                        | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.7         | 600                                | 86                             | PHE427HB5820JR06   |
| 0.10                         | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 2.0         | 600                                | 83                             | PHE427HB6100JR06   |
| 0.12                         | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 600                                | 74                             | PHE427HB6120JR06   |
| 0.15                         | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 600                                | 73                             | PHE427HB6150JR06   |
| 0.18                         | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 600                                | 67                             | PHE427HB6180JR06   |
| 0.22                         | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 600                                | 65                             | PHE427HB6220JR06   |
| <b>LEAD SPACING 22.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 0.18                         | 6.5                  | 14.5 | 26.0 | 22.5 | 234                  |      |      |      | 3.2         | 400                                | 58                             | PHE427HD6180JR06L2 |
| 0.22                         | 7.0                  | 16.5 | 26.0 | 22.5 | 216                  |      |      |      | 3.9         | 400                                | 53                             | PHE427HD6220JR06L2 |
| 0.27                         | 7.0                  | 16.5 | 26.0 | 22.5 | 216                  |      |      |      | 3.9         | 400                                | 52                             | PHE427HD6270JR06L2 |
| 0.33                         | 9.0                  | 18.5 | 26.0 | 22.5 | 168                  |      |      |      | 5.6         | 400                                | 48                             | PHE427HD6330JR06L2 |
| 0.39                         | 9.0                  | 18.5 | 26.0 | 22.5 | 168                  |      |      |      | 5.6         | 400                                | 46                             | PHE427HD6390JR06L2 |
| 0.47                         | 9.0                  | 18.5 | 26.0 | 22.5 | 168                  |      |      |      | 5.6         | 400                                | 46                             | PHE427HD6470JR06L2 |
| 0.56                         | 11.0                 | 21.5 | 26.0 | 22.5 | 253                  |      |      |      | 8.0         | 400                                | 41                             | PHE427HD6560JR06L2 |
| 0.68                         | 11.0                 | 21.5 | 26.0 | 22.5 | 253                  |      |      |      | 8.0         | 400                                | 40                             | PHE427HD6680JR06L2 |
| <b>LEAD SPACING 27.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 0.56                         | 10.5                 | 20.5 | 31.5 | 27.5 | 216                  |      |      |      | 8.0         | 300                                | 38                             | PHE427HF6560JR06L2 |
| 0.68                         | 10.5                 | 20.5 | 31.5 | 27.5 | 216                  |      |      |      | 8.0         | 300                                | 38                             | PHE427HF6680JR06L2 |
| 0.82                         | 11.5                 | 22.5 | 31.5 | 27.5 | 198                  |      |      |      | 10.6        | 300                                | 34                             | PHE427HF6820JR06L2 |
| 1.0                          | 11.5                 | 22.5 | 31.5 | 27.5 | 198                  |      |      |      | 10.6        | 300                                | 34                             | PHE427HF7100JR06L2 |
| 1.2                          | 14.5                 | 24.5 | 31.5 | 27.5 | 153                  |      |      |      | 14.5        | 300                                | 31                             | PHE427HF7120JR06L2 |
| 1.5                          | 14.5                 | 24.5 | 31.5 | 27.5 | 153                  |      |      |      | 14.5        | 300                                | 30                             | PHE427HF7150JR06L2 |
| 1.8                          | 17.5                 | 28.0 | 31.5 | 27.5 | 126                  |      |      |      | 19.7        | 300                                | 27                             | PHE427HF7180JR06L2 |
| 2.2                          | 17.5                 | 28.0 | 31.5 | 27.5 | 126                  |      |      |      | 19.7        | 300                                | 26                             | PHE427HF7220JR06L2 |
| <b>LEAD SPACING 37.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                    |                                |                    |
| 1.5                          | 13.0                 | 24.0 | 41.0 | 37.5 | 140                  |      |      |      | 16.6        | 200                                | 27                             | PHE427HR7150JR06L2 |
| 1.8                          | 15.0                 | 26.0 | 41.0 | 37.5 | 119                  |      |      |      | 20.8        | 200                                | 25                             | PHE427HR7180JR06L2 |
| 2.2                          | 16.5                 | 32.0 | 41.0 | 37.5 | 105                  |      |      |      | 28.1        | 200                                | 22                             | PHE427HR7220JR06L2 |
| 2.7                          | 16.5                 | 32.0 | 41.0 | 37.5 | 105                  |      |      |      | 28.1        | 200                                | 22                             | PHE427HR7270JR06L2 |
| 3.3                          | 16.5                 | 32.0 | 41.0 | 37.5 | 105                  |      |      |      | 28.1        | 200                                | 20                             | PHE427HR7330JR06L2 |
| 3.9                          | 19.0                 | 36.0 | 41.0 | 37.5 | 91                   |      |      |      | 36.5        | 200                                | 18                             | PHE427HR7390JR06L2 |
| 4.7                          | 19.0                 | 36.0 | 41.0 | 37.5 | 91                   |      |      |      | 36.5        | 200                                | 18                             | PHE427HR7470JR06L2 |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$ | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Weight<br>g | Max<br>dU/dt<br>V/ $\mu\text{s}$ | Rthha °C/W<br>85 °C<br>0.2 m/s | Article code       |
|------------------------------|----------------------|------|------|------|----------------------|------|------|------|-------------|----------------------------------|--------------------------------|--------------------|
|                              | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |             |                                  |                                |                    |
| <b>400 VDC/220 VAC</b>       |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| <b>LEAD SPACING 7.5 MM</b>   |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.00068                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK3680JR05   |
| 0.00082                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK3820JR05   |
| 0.0010                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4100JR05   |
| 0.0012                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4120JR05   |
| 0.0015                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4150JR05   |
| 0.0018                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4180JR05   |
| 0.0022                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4220JR05   |
| 0.0027                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4270JR05   |
| 0.0033                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4330JR05   |
| 0.0039                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4390JR05   |
| 0.0047                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4470JR05   |
| 0.0056                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4560JR05   |
| 0.0068                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4680JR05   |
| 0.0082                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK4820JR05   |
| 0.010                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK5100JR05   |
| 0.012                        | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1200                             | 160                            | PHE427KK5120JR05   |
| 0.015                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1200                             | 160                            | PHE427KK5150JR05   |
| 0.018                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1200                             | 160                            | PHE427KK5180JR05   |
| 0.022                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1200                             | 160                            | PHE427KK5220JR05   |
| 0.027                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1200                             | 160                            | PHE427KK5270JR05   |
| 0.033                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1200                             | 160                            | PHE427KK5330JR05   |
| 0.039                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 1200                             | 160                            | PHE427KK5390JR05   |
| 0.047                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 1200                             | 160                            | PHE427KK5470JR05   |
| <b>LEAD SPACING 10 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.0082                       | 4.0                  | 8.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 600                              | 142                            | PHE427KA4820JR05   |
| 0.010                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 600                              | 142                            | PHE427KA5100JR05   |
| 0.012                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 600                              | 142                            | PHE427KA5120JR05   |
| 0.015                        | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.9         | 600                              | 142                            | PHE427KA5150JR05   |
| 0.018                        | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 0.9         | 600                              | 122                            | PHE427KA5180JR05   |
| 0.022                        | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 600                              | 116                            | PHE427KA5220JR05   |
| 0.027                        | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 600                              | 116                            | PHE427KA5270JR05   |
| <b>LEAD SPACING 15 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.033                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 99                             | PHE427KB5330JR06   |
| 0.039                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 99                             | PHE427KB5390JR06   |
| 0.047                        | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.7         | 1000                             | 99                             | PHE427KB5470JR06   |
| 0.056                        | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 2.0         | 1000                             | 86                             | PHE427KB5560JR06   |
| 0.068                        | 6.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 500  |      | 2.0         | 1000                             | 83                             | PHE427KB5680JR06   |
| 0.082                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 1000                             | 74                             | PHE427KB5820JR06   |
| 0.10                         | 8.0                  | 15.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.0         | 1000                             | 71                             | PHE427KB6100JR06   |
| 0.12                         | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 1000                             | 67                             | PHE427KB6120JR06   |
| <b>LEAD SPACING 22.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.12                         | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3.2         | 600                              | 58                             | PHE427KD6120JR06L2 |
| 0.15                         | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3.9         | 600                              | 52                             | PHE427KD6150JR06L2 |
| 0.18                         | 8.0                  | 16.0 | 26.0 | 22.5 |                      | 186  |      |      | 4.3         | 600                              | 53                             | PHE427KD6180JR06L2 |
| 0.22                         | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5.6         | 600                              | 48                             | PHE427KD6220JR06L2 |
| 0.27                         | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 6.7         | 600                              | 45                             | PHE427KD6270JR06L2 |
| 0.33                         | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8.0         | 600                              | 42                             | PHE427KD6330JR06L2 |
| 0.39                         | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8.0         | 600                              | 40                             | PHE427KD6390JR06L2 |
| <b>LEAD SPACING 27.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.33                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.8         | 500                              | 37                             | PHE427KF6330JR06L2 |
| 0.39                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.8         | 500                              | 37                             | PHE427KF6390JR06L2 |
| 0.47                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.8         | 500                              | 37                             | PHE427KF6470JR06L2 |
| 0.56                         | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10.6        | 500                              | 34                             | PHE427KF6560JR06L2 |
| 0.68                         | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 14.5        | 500                              | 32                             | PHE427KF6680JR06L2 |
| 0.82                         | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 19.7        | 500                              | 28                             | PHE427KF6820JR06L2 |
| 1.0                          | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 19.7        | 500                              | 27                             | PHE427KF7100JR06L2 |

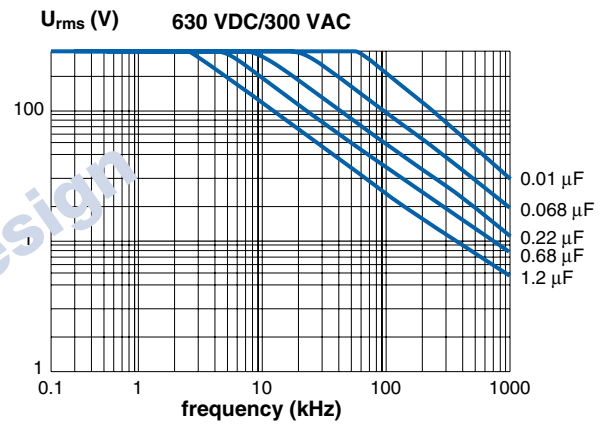
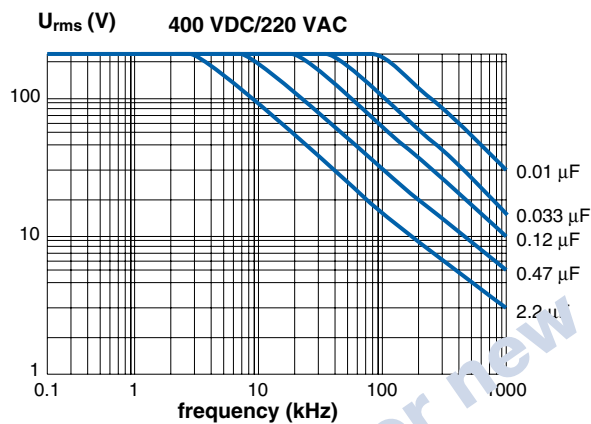
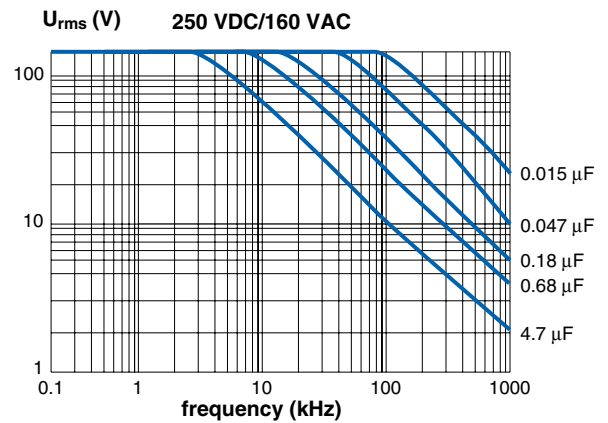
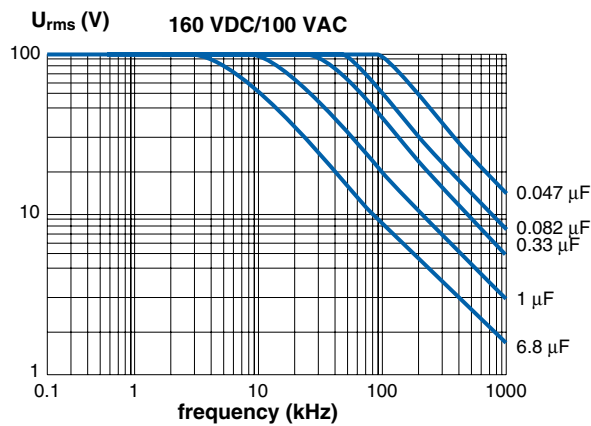
## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$ | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Weight<br>g | Max<br>dU/dt<br>V/ $\mu\text{s}$ | Rthja °C/W<br>85 °C<br>0.2 m/s | Article code       |
|------------------------------|----------------------|------|------|------|----------------------|------|------|------|-------------|----------------------------------|--------------------------------|--------------------|
|                              | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |             |                                  |                                |                    |
| <b>400 VDC/220 VAC</b>       |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| <b>LEAD SPACING 37.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 1.0                          | 13.0                 | 24.0 | 41.0 | 37.5 |                      |      | 140  |      | 16.6        | 300                              | 27                             | PHE427KR7100JR06L2 |
| 1.2                          | 15.0                 | 26.0 | 41.0 | 37.5 |                      |      | 119  |      | 20.8        | 300                              | 25                             | PHE427KR7120JR06L2 |
| 1.5                          | 16.5                 | 32.0 | 41.0 | 37.5 |                      |      | 105  |      | 28.1        | 300                              | 22                             | PHE427KR7150JR06L2 |
| 1.8                          | 16.5                 | 32.0 | 41.0 | 37.5 |                      |      | 105  |      | 28.1        | 300                              | 21                             | PHE427KR7180JR06L2 |
| 2.2                          | 19.0                 | 36.0 | 41.0 | 37.5 |                      |      | 91   |      | 36.5        | 300                              | 19                             | PHE427KR7220JR06L2 |
| <b>630 VDC/300 VAC</b>       |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| <b>LEAD SPACING 7.5 MM</b>   |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.00068                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK3680JR05   |
| 0.00082                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK3820JR05   |
| 0.0010                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4100JR05   |
| 0.0012                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4120JR05   |
| 0.0015                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4150JR05   |
| 0.0018                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4180JR05   |
| 0.0022                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4220JR05   |
| 0.0027                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4270JR05   |
| 0.0033                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4330JR05   |
| 0.0039                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4390JR05   |
| 0.0047                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4470JR05   |
| 0.0056                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 1400                             | 160                            | PHE427MK4560JR05   |
| 0.0068                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1400                             | 160                            | PHE427MK4680JR05   |
| 0.0082                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1400                             | 160                            | PHE427MK4820JR05   |
| 0.010                        | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 1400                             | 160                            | PHE427MK5100JR05   |
| 0.012                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 1400                             | 160                            | PHE427MK5120JR05   |
| 0.015                        | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 1400                             | 160                            | PHE427MK5150JR05   |
| <b>LEAD SPACING 10 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.0015                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 142                            | PHE427MA4150JR05   |
| 0.0018                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 142                            | PHE427MA4180JR05   |
| 0.0022                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 139                            | PHE427MA4220JR05   |
| 0.0027                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 139                            | PHE427MA4270JR05   |
| 0.0033                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 121                            | PHE427MA4330JR05   |
| 0.0039                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 116                            | PHE427MA4390JR05   |
| 0.0047                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 100                            | PHE427MA4470JR05   |
| 0.0056                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 100                            | PHE427MA4560JR05   |
| 0.0068                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 |      | 900  |      | 0.6         | 800                              | 98                             | PHE427MA4680JR05   |
| 0.0082                       | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 0.9         | 800                              | 86                             | PHE427MA4820JR05   |
| 0.010                        | 4.5                  | 10.5 | 13.0 | 10.0 | 1000                 |      | 800  |      | 0.9         | 800                              | 142                            | PHE427MA5100JR05   |
| 0.012                        | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 800                              | 142                            | PHE427MA5120JR05   |
| 0.015                        | 5.0                  | 11.0 | 13.0 | 10.0 | 800                  |      | 700  |      | 1.0         | 800                              | 142                            | PHE427MA5150JR05   |
| <b>LEAD SPACING 15 MM</b>    |                      |      |      |      |                      |      |      |      |             |                                  |                                |                    |
| 0.010                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 99                             | PHE427MB5100JR06   |
| 0.012                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 99                             | PHE427MB5120JR06   |
| 0.015                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 98                             | PHE427MB5150JR06   |
| 0.018                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 98                             | PHE427MB5180JR06   |
| 0.022                        | 5.5                  | 10.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.5         | 1000                             | 98                             | PHE427MB5220JR06   |
| 0.027                        | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.7         | 1000                             | 85                             | PHE427MB5270JR06   |
| 0.033                        | 5.5                  | 12.5 | 18.0 | 15.0 | 1000                 |      | 600  |      | 1.7         | 1000                             | 84                             | PHE427MB5330JR06   |
| 0.039                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 1000                             | 74                             | PHE427MB5390JR06   |
| 0.047                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 1000                             | 74                             | PHE427MB5470JR06   |
| 0.056                        | 7.5                  | 14.5 | 18.0 | 15.0 | 800                  |      | 400  |      | 2.7         | 1000                             | 73                             | PHE427MB5560JR06   |
| 0.068                        | 8.5                  | 16.0 | 18.0 | 15.0 | 600                  |      | 400  |      | 3.4         | 1000                             | 67                             | PHE427MB5680JR06   |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$ | Max dimensions in mm |      |      |      | Quantity per package |      |      |      | Weight<br>g | Max<br>$dU/dt$<br>$\text{V}/\mu\text{s}$ | Rthha °C/W<br>85 °C<br>0.2 m/s | Article code       |
|------------------------------|----------------------|------|------|------|----------------------|------|------|------|-------------|--|--------------------------------|--------------------|
|                              | B                    | H    | L    | p    | Bulk                 | Tray | Reel | Ammo |             |  |                                |                    |
| <b>630 VDC/300 VAC</b>       |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| <b>LEAD SPACING 22.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| 0.047                        | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3.2         | 600                                      | 58                             | PHE427MD5470JR06L2 |
| 0.056                        | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3.2         | 600                                      | 58                             | PHE427MD5560JR06L2 |
| 0.068                        | 6.5                  | 14.5 | 26.0 | 22.5 |                      | 234  |      |      | 3.2         | 600                                      | 58                             | PHE427MD5680JR06L2 |
| 0.082                        | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3.9         | 600                                      | 53                             | PHE427MD5820JR06L2 |
| 0.10                         | 7.0                  | 16.5 | 26.0 | 22.5 |                      | 216  |      |      | 3.9         | 600                                      | 52                             | PHE427MD6100JR06L2 |
| 0.12                         | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5.6         | 600                                      | 48                             | PHE427MD6120JR06L2 |
| 0.15                         | 9.0                  | 18.5 | 26.0 | 22.5 |                      | 168  |      |      | 5.6         | 600                                      | 46                             | PHE427MD6150JR06L2 |
| 0.18                         | 10.5                 | 19.0 | 26.0 | 22.5 |                      | 264  |      |      | 6.7         | 600                                      | 45                             | PHE427MD6180JR06L2 |
| 0.22                         | 11.0                 | 21.5 | 26.0 | 22.5 |                      | 253  |      |      | 8.0         | 600                                      | 41                             | PHE427MD6220JR06L2 |
| <b>LEAD SPACING 27.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| 0.15                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.0         | 300                                      | 37                             | PHE427MF6150JR06L2 |
| 0.18                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.0         | 300                                      | 37                             | PHE427MF6180JR06L2 |
| 0.22                         | 10.5                 | 20.5 | 31.5 | 27.5 |                      | 216  |      |      | 8.0         | 300                                      | 37                             | PHE427MF6220JR06L2 |
| 0.27                         | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10.6        | 300                                      | 35                             | PHE427MF6270JR06L2 |
| 0.33                         | 11.5                 | 22.5 | 31.5 | 27.5 |                      | 198  |      |      | 10.6        | 300                                      | 34                             | PHE427MF6330JR06L2 |
| 0.39                         | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 14.5        | 300                                      | 32                             | PHE427MF6390JR06L2 |
| 0.47                         | 14.5                 | 24.5 | 31.5 | 27.5 |                      | 153  |      |      | 14.5        | 300                                      | 31                             | PHE427MF6470JR06L2 |
| 0.56                         | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 19.7        | 300                                      | 28                             | PHE427MF6560JR06L2 |
| 0.68                         | 17.5                 | 28.0 | 31.5 | 27.5 |                      | 126  |      |      | 19.7        | 300                                      | 27                             | PHE427MF6680JR06L2 |
| <b>LEAD SPACING 37.5 MM</b>  |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| 0.47                         | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 16.6        | 250                                      | 27                             | PHE427MR6470JR06L2 |
| 0.56                         | 13.0                 | 24.0 | 41.0 | 37.5 |                      | 140  |      |      | 16.6        | 250                                      | 27                             | PHE427MR6560JR06L2 |
| 0.68                         | 15.0                 | 26.0 | 41.0 | 37.5 |                      | 119  |      |      | 20.8        | 250                                      | 25                             | PHE427MR6680JR06L2 |
| 0.82                         | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 28.1        | 250                                      | 22                             | PHE427MR6820JR06L2 |
| 1.0                          | 16.5                 | 32.0 | 41.0 | 37.5 |                      | 105  |      |      | 28.1        | 250                                      | 22                             | PHE427MR7100JR06L2 |
| 1.2                          | 19.0                 | 36.0 | 41.0 | 37.5 |                      | 91   |      |      | 36.5        | 250                                      | 19                             | PHE427MR7120JR06L2 |
| <b>1000 VDC/375 VAC</b>      |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| <b>LEAD SPACING 7.5 MM</b>   |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| 0.00068                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK3680JR05   |
| 0.00082                      | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK3820JR05   |
| 0.0010                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK4100JR05   |
| 0.0012                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK4120JR05   |
| 0.0015                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK4150JR05   |
| 0.0018                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK4180JR05   |
| 0.0022                       | 4.0                  | 8.0  | 10.0 | 7.5  | 1000                 |      | 1700 | 1900 | 0.5         | 2000                                     | 160                            | PHE427PK4220JR05   |
| 0.0027                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 2000                                     | 160                            | PHE427PK4270JR05   |
| 0.0033                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 2000                                     | 160                            | PHE427PK4330JR05   |
| 0.0039                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 2000                                     | 160                            | PHE427PK4390JR05   |
| 0.0047                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 2000                                     | 160                            | PHE427PK4470JR05   |
| 0.0056                       | 5.0                  | 11.0 | 10.0 | 7.5  | 1000                 |      | 1300 | 1500 | 0.8         | 2000                                     | 160                            | PHE427PK4560JR05   |
| 0.0068                       | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 2000                                     | 160                            | PHE427PK4680JR05   |
| 0.0082                       | 6.0                  | 12.0 | 10.5 | 7.5  | 1000                 |      | 1000 | 1200 | 1.0         | 2000                                     | 160                            | PHE427PK4820JR05   |
| <b>LEAD SPACING 10.0 MM</b>  |                      |      |      |      |                      |      |      |      |             |  |                                |                    |
| 0.0010                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4100JR05   |
| 0.0012                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4120JR05   |
| 0.0015                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4150JR05   |
| 0.0018                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4180JR05   |
| 0.0022                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4220JR05   |
| 0.0027                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4270JR05   |
| 0.0033                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4330JR05   |
| 0.0039                       | 4.0                  | 9.0  | 13.0 | 10.0 | 1000                 | 1000 |      | 900  | 0.6         | 2000                                     | 160                            | PHE427PA4390JR05   |

## DERATING OF $U_{RMS}$ VS FREQUENCY, +85°C AMBIENT TEMPERATURE AND 10°C INTERNAL HEATING, TYPICAL VALUES



More simulation possibilities in PCCADsoftware package. See page 204.

### ORDERING INFORMATION

The article code for the standard part is given in the article table.  
For other options, see page 21.

### MARKING

- RIFA
- Article code
- Rated capacitance according to IEC 60062
- Rated voltage
- Capacitance tolerance code
- Manufacturing code (year, month)

### PACKING

The box dimensions for bulk packaging are 245 x 145 x 80 mm. Quantity/package as in article table, based on standard lead length. Reels with taped capacitors are packed 10 in a box with the dimensions 370 x 370 x 560 mm. Quantity per reel as in article table. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.