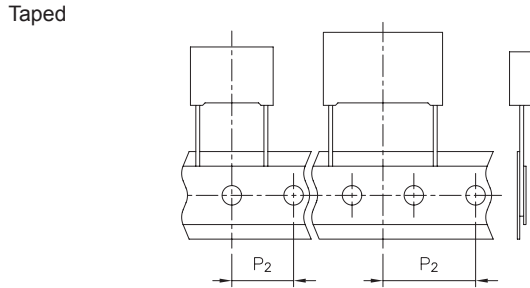


Fig. 1

Fig. 2

Loose

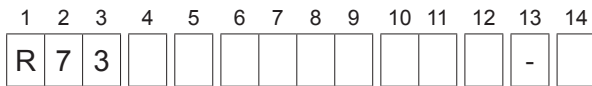


|         |               |          |
|---------|---------------|----------|
| ød±0.05 | 15 ≤ p ≤ 27.5 | p = 37.5 |
|         | 0.8           | 1.0      |

All dimensions are in mm

**PRODUCT CODE SYSTEM**

The part number, comprising 14 digits, is formed as follows:



- Digit 1 to 3 Series code.
- Digit 4 d.c. rated voltage:  
for 1 section  
E = 100V G = 160V I = 250V  
M = 400V  
for 2 sections  
P = 630V Q = 1000V R = 1250V  
T = 1600V U = 2000V
- Digit 5 Pitch:  
I = 15 mm; N = 22.5mm;  
R = 27.5mm; W = 37.5mm.
- Digit 6 to 9 Digits 7 - 8 - 9 indicate the first three digits of Capacitance value and the 6th digit indicates the number of zeros that must be added to obtain the Rated Capacitance in pF.
- Digit 10 to 11 Mechanical version and/or packaging (table 1)
- Digit 12 Identifies the dimensions and electrical characteristics.
- Digit 13 Internal use.
- Digit 14 Capacitance tolerance:  
H=2.5% (\*); J=5%; K=10%  
(\* Only for 2 sections).

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS**

**Typical applications:** deflection circuits in TV-sets (fly-back tuning), switching spikes suppression in SMPS, SNUBBER and SCR commutating circuits, switching circuit in electronic ballasts, applications with high voltage and very high current.

PRODUCT CODE: **R73**

**PLEASE USE SERIES R76 OR R77 INSTEAD**

| Pitch<br>(mm) | Box thickness<br>(mm) | Maximum dimensions (mm) |        |        |
|---------------|-----------------------|-------------------------|--------|--------|
|               |                       | B max                   | H max  | L max  |
| 15.0          | <7.5                  | B +0.2                  | H +0.1 | L +0.3 |
| 15.0          | ≥7.5                  | B +0.2                  | H +0.1 | L +0.5 |
| 22.5          | All                   | B +0.2                  | H +0.1 | L +0.3 |
| 27.5          | All                   | B +0.2                  | H +0.1 | L +0.3 |
| 37.5          | All                   | B +0.3                  | H +0.1 | L +0.3 |

**GENERAL TECHNICAL DATA**

- Dielectric:** polypropylene film.
- Plates:** metal foil for 1 section.  
metal foil + metallized film for 2 sections.
- Winding:** non-inductive type.
- Leads:** tinned wire.
- Protection:** plastic case, thermosetting resin filled.  
Box material is solvent resistant and flame retardant according to UL94 V0.
- Marking:** capacitance, tolerance, D.C. rated voltage, manufacturer's logo, series (R73), dielectric code (KP), manufacturing date code.
- Climatic category:** 55/105/56 IEC 60068-1
- Operating temperature range:** -55 to +105°C
- Related documents:** IEC 60384-13

Table 1 (for more detailed information, please refer to page 14.)

| Standard packaging style | Lead length (mm)    | Taping style        |            |             | Ordering code (Digit 10 to 11) |
|--------------------------|---------------------|---------------------|------------|-------------|--------------------------------|
|                          |                     | P <sub>2</sub> (mm) | Fig. (No.) | Pitch (mm)  |                                |
| AMMO-PACK                |                     | 12.70               | 1          | 15.0        | DQ                             |
| AMMO-PACK                |                     | 19.05               | 2          | 22.5        | DQ                             |
| REEL Ø 355mm             |                     | 12.70               | 1          | 15.0        | GY                             |
| REEL Ø 500mm             |                     | 12.70               | 1          | 15.0        | CK                             |
| REEL Ø 500mm             |                     | 19.05               | 2          | 22.5 / 27.5 | CK                             |
| Loose, short leads       | 4 <sup>+2</sup>     |                     |            |             | SE                             |
| Loose, long leads        | 30 <sup>+5</sup>    |                     |            |             | 40                             |
| Loose, long leads        | 25 <sup>+2/-1</sup> |                     |            |             | 50                             |

Note: Ammo-pack is the preferred packaging for taped version.

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS**

PRODUCT CODE: R73

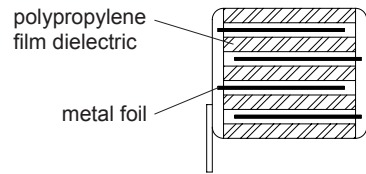
| Rated Cap.    | 100Vdc / 63Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/ $\mu$ s) | Max $K_0$<br>( $V^2/\mu$ s) | Part Number     |
|---------------|----------------------------------|------|------|------|---------------------------|-----------------------------|-----------------|
|               | B                                | H    | L    | p    |                           |                             |                 |
| 0.047 $\mu$ F | 5.0                              | 11.0 | 18.0 | 15.0 | 2400                      | 0.48 E6                     | R73EI 2470--0-- |
| 0.068 $\mu$ F | 6.0                              | 12.0 | 18.0 | 15.0 | 2400                      | 0.48 E6                     | R73EI 2680--0-- |
| 0.10 $\mu$ F  | 7.5                              | 13.5 | 18.0 | 15.0 | 2400                      | 0.48 E6                     | R73EI 3100--0-- |
| 0.15 $\mu$ F  | 10.0                             | 16.0 | 18.0 | 15.0 | 2400                      | 0.48 E6                     | R73EI 3150--0-- |

| Rated Cap.    | 160Vdc / 90Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/ $\mu$ s) | Max $K_0$<br>( $V^2/\mu$ s) | Part Number     |
|---------------|----------------------------------|------|------|------|---------------------------|-----------------------------|-----------------|
|               | B                                | H    | L    | p    |                           |                             |                 |
| 0.033 $\mu$ F | 5.0                              | 11.0 | 18.0 | 15.0 | 3000                      | 0.96 E6                     | R73GI 2330--0-- |
| 0.047 $\mu$ F | 6.0                              | 12.0 | 18.0 | 15.0 | 3000                      | 0.96 E6                     | R73GI 2470--0-- |
| 0.068 $\mu$ F | 7.5                              | 13.5 | 18.0 | 15.0 | 3000                      | 0.96 E6                     | R73GI 2680--0-- |
| 0.10 $\mu$ F  | 10.0                             | 16.0 | 18.0 | 15.0 | 3000                      | 0.96 E6                     | R73GI 3100--0-- |

| Rated Cap.    | 250Vdc / 125Vac*<br>Std dimensions |      |      |      | Max dv/dt<br>(V/ $\mu$ s) | Max $K_0$<br>( $V^2/\mu$ s) | Part Number     |
|---------------|------------------------------------|------|------|------|---------------------------|-----------------------------|-----------------|
|               | B                                  | H    | L    | p    |                           |                             |                 |
| 0.015 $\mu$ F | 5.0                                | 11.0 | 18.0 | 15.0 | 4800                      | 2.4 E6                      | R73II 2150--0-- |
| 0.022 $\mu$ F | 6.0                                | 12.0 | 18.0 | 15.0 | 4800                      | 2.4 E6                      | R73II 2220--0-- |
| 0.033 $\mu$ F | 7.5                                | 13.5 | 18.0 | 15.0 | 4800                      | 2.4 E6                      | R73II 2330--0-- |
| 0.047 $\mu$ F | 10.0                               | 16.0 | 18.0 | 15.0 | 4800                      | 2.4 E6                      | R73II 2470--0-- |

| Rated Cap.    | 400Vdc / 160Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/ $\mu$ s) | Max $K_0$<br>( $V^2/\mu$ s) | Part Number     |
|---------------|-----------------------------------|------|------|------|---------------------------|-----------------------------|-----------------|
|               | B                                 | H    | L    | p    |                           |                             |                 |
| 0.010 $\mu$ F | 5.0                               | 11.0 | 18.0 | 15.0 | 6000                      | 4.8 E6                      | R73MI 2100--0-- |
| 0.015 $\mu$ F | 6.0                               | 12.0 | 18.0 | 15.0 | 6000                      | 4.8 E6                      | R73MI 2150--0-- |
| 0.022 $\mu$ F | 7.5                               | 13.5 | 18.0 | 15.0 | 6000                      | 4.8 E6                      | R73MI 2220--0-- |
| 0.033 $\mu$ F | 8.5                               | 14.5 | 18.0 | 15.0 | 6000                      | 4.8 E6                      | R73MI 2330--0-- |
| 0.047 $\mu$ F | 10.0                              | 16.0 | 18.0 | 15.0 | 6000                      | 4.8 E6                      | R73MI 2470--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: J ( $\pm 5\%$ ); K ( $\pm 10\%$ ) \_\_\_\_\_



**1 section  
(100-160-250-400Vdc)**

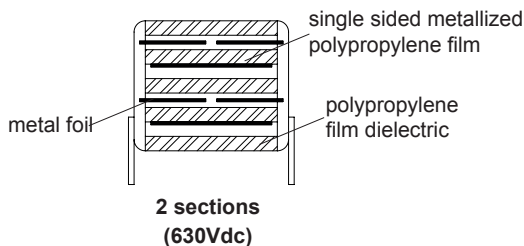
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage ( $V_R$ ), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio  $V_R/V$ . The pulse characteristic  $K_0$  depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

\*Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 145).

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS**

PRODUCT CODE: **R73**



| Rated Cap. | 630Vdc / 300Vac* Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number     |
|------------|---------------------------------|------|------|------|------------------|---|-----------------|
|            | B                               | H    | L    | p    |                  |   |                 |
| 0.010 μF   | 5.0                             | 11.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2100--0-- |
| 0.012 μF   | 5.0                             | 11.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2120--0-- |
| 0.015 μF   | 6.0                             | 12.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2150--0-- |
| 0.018 μF   | 6.0                             | 12.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2180--0-- |
| 0.022 μF   | 7.5                             | 13.5 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2220--0-- |
| 0.027 μF   | 7.5                             | 13.5 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2270--0-- |
| 0.033 μF   | 8.5                             | 14.5 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2330--0-- |
| 0.039 μF   | 10.0                            | 16.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2390--0-- |
| 0.047 μF   | 10.0                            | 16.0 | 18.0 | 15.0 | 11000            | 14.0 E6                                 | R73PI 2470--0-- |
| 0.039 μF   | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 2390--0-- |
| 0.047 μF   | 7.0                             | 16.0 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 2470--0-- |
| 0.056 μF   | 7.0                             | 16.0 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 2560--0-- |
| 0.068 μF   | 8.5                             | 17.0 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 2680--0-- |
| 0.082 μF   | 10.0                            | 18.5 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 2820--0-- |
| 0.10 μF    | 10.0                            | 18.5 | 26.5 | 22.5 | 11000            | 14.0 E6                                 | R73PN 3100--0-- |
| 0.10 μF    | 9.0                             | 17.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3100--0-- |
| 0.12 μF    | 9.0                             | 17.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3120--0-- |
| 0.15 μF    | 11.0                            | 20.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3150--0-- |
| 0.18 μF    | 11.0                            | 20.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3180--1-- |
| 0.18 μF    | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3180--0-- |
| 0.22 μF    | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3220--0-- |
| 0.27 μF    | 13.0                            | 25.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3270--1-- |
| 0.33 μF    | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3330--0-- |
| 0.39 μF    | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3390--1-- |
| 0.39 μF    | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3390--0-- |
| 0.47 μF    | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3470--0-- |
| 0.56 μF    | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3560--1-- |
| 0.56 μF    | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3560--0-- |
| 0.68 μF    | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3680--0-- |
| 0.82 μF    | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 14.0 E6                                 | R73PR 3820--1-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: J (±5%); K (±10%); \_\_\_\_\_

| Rated Cap. | 630Vdc / 300Vac* Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number    |
|------------|---------------------------------|------|------|------|------------------|---|----------------|
|            | B                               | H    | L    | p    |                  |   |                |
| 0.22 μF    | 11.0                            | 22.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3220--0-- |
| 0.27 μF    | 11.0                            | 22.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3270--0-- |
| 0.33 μF    | 11.0                            | 22.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3330--1-- |
| 0.33 μF    | 13.0                            | 24.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3330--0-- |
| 0.39 μF    | 13.0                            | 24.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3390--0-- |
| 0.47 μF    | 13.0                            | 24.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3470--1-- |
| 0.47 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3470--0-- |
| 0.56 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3560--0-- |
| 0.68 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3680--0-- |
| 0.82 μF    | 19.0                            | 32.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW3820--0-- |
| 1.0 μF     | 20.0                            | 40.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW4100--0-- |
| 1.2 μF     | 20.0                            | 40.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW4120--0-- |
| 1.5 μF     | 24.0                            | 44.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW4150--0-- |
| 1.8 μF     | 30.0                            | 45.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW4180--0-- |
| 2.2 μF     | 30.0                            | 45.0 | 41.5 | 37.5 | 3000             | 3.8 E6                                  | R73PW4220--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: J (±5%); K (±10%); \_\_\_\_\_

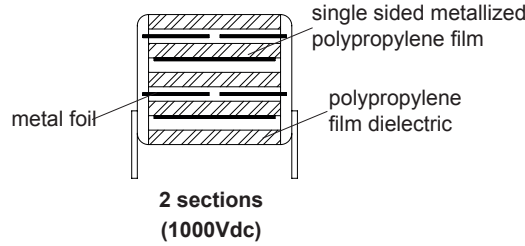
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V. The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

\*Not suitable for cross-the-line applications. Please refer to Interference Suppression Capacitors (page 145).

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS.**

PRODUCT CODE: **R73**



| Rated Cap. | 1000Vdc / 400Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/μs) | K <sub>0</sub><br>(V <sup>2</sup> /μs) | Part Number     |
|------------|------------------------------------|------|------|------|---------------------|--|-----------------|
|            | B                                  | H    | L    | p    |                     |  |                 |
| 3300 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1330--3-- |
| 3900 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1390--3-- |
| 4700 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1470--3-- |
| 5600 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1560--3-- |
| 6800 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1680--3-- |
| 8200 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 1820--3-- |
| 0.010 μF   | 6.0                                | 12.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2100--3-- |
| 0.012 μF   | 6.0                                | 12.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2120--3-- |
| 0.015 μF   | 7.5                                | 13.5 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2150--3-- |
| 0.018 μF   | 8.5                                | 14.5 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2180--3-- |
| 0.022 μF   | 8.5                                | 14.5 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2220--3-- |
| 0.027 μF   | 10.0                               | 16.0 | 18.0 | 15.0 | 28000               | 56 E6                                  | R73QI 2270--3-- |
| 0.015 μF   | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2150--3-- |
| 0.018 μF   | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2180--3-- |
| 0.022 μF   | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2220--3-- |
| 0.027 μF   | 7.0                                | 16.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2270--3-- |
| 0.033 μF   | 7.0                                | 16.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2330--3-- |
| 0.039 μF   | 8.5                                | 17.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2390--3-- |
| 0.047 μF   | 8.5                                | 17.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2470--3-- |
| 0.056 μF   | 10.0                               | 18.5 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2560--3-- |
| 0.068 μF   | 11.0                               | 20.0 | 26.5 | 22.5 | 11000               | 22 E6                                  | R73QN 2680--3-- |
| 0.047 μF   | 9.0                                | 17.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 2470--3-- |
| 0.056 μF   | 9.0                                | 17.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 2560--3-- |
| 0.068 μF   | 9.0                                | 17.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 2680--3-- |
| 0.082 μF   | 9.0                                | 17.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 2820--4-- |
| 0.082 μF   | 11.0                               | 20.0 | 32.0 | 27.5 | 11000               | 22 e6                                  | R73QR 2820--3-- |
| 0.10 μF    | 11.0                               | 20.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3100--3-- |
| 0.12 μF    | 11.0                               | 20.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3120--4-- |
| 0.12 μF    | 13.0                               | 22.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3120--3-- |
| 0.15 μF    | 13.0                               | 22.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3150--3-- |
| 0.18 μF    | 13.0                               | 25.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3180--4-- |
| 0.22 μF    | 14.0                               | 28.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3220--3-- |
| 0.27 μF    | 18.0                               | 33.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3270--3-- |
| 0.33 μF    | 18.0                               | 33.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3330--3-- |
| 0.47 μF    | 22.0                               | 37.0 | 32.0 | 27.5 | 11000               | 22 E6                                  | R73QR 3470--3-- |

| Rated Cap. | 1000Vdc / 400Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/μs) | K <sub>0</sub><br>(V <sup>2</sup> /μs) | Part Number    |
|------------|------------------------------------|------|------|------|---------------------|--|----------------|
|            | B                                  | H    | L    | p    |                     |  |                |
| 0.12 μF    | 11.0                               | 22.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3120--3-- |
| 0.15 μF    | 11.0                               | 22.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3150--3-- |
| 0.18 μF    | 11.0                               | 22.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3180--3-- |
| 0.22 μF    | 13.0                               | 24.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3220--3-- |
| 0.27 μF    | 13.0                               | 24.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3270--4-- |
| 0.27 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3270--3-- |
| 0.33 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3330--3-- |
| 0.39 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3390--3-- |
| 0.47 μF    | 19.0                               | 32.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3470--3-- |
| 0.56 μF    | 19.0                               | 32.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3560--3-- |
| 0.68 μF    | 20.0                               | 40.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3680--3-- |
| 0.82 μF    | 20.0                               | 40.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW3820--3-- |
| 1.0 μF     | 24.0                               | 44.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW4100--3-- |
| 1.2 μF     | 30.0                               | 45.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW4120--3-- |
| 1.5 μF     | 30.0                               | 45.0 | 41.5 | 37.5 | 4500                | 9 E6                                   | R73QW4150--4-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: H (±2.5%); J (±5%); K (±10%); \_\_\_\_\_

Mechanical version and packaging (Table1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: H (±2.5%); J (±5%); K (±10%); \_\_\_\_\_

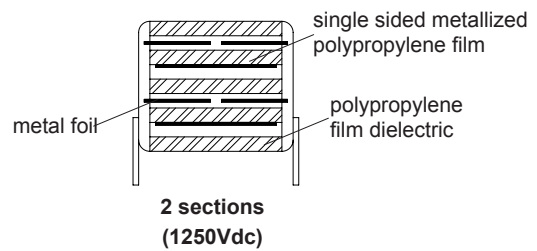
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.  
 The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS.**

PRODUCT CODE: R73

| Rated Cap. | 1250Vdc / 450Vac<br>Std dimensions |      |      |      | Max dv/dt<br>(V/μs) | K <sub>0</sub><br>(V <sup>2</sup> /μs) | Part Number     |
|------------|------------------------------------|------|------|------|---------------------|--|-----------------|
|            | B                                  | H    | L    | p    |                     |  |                 |
| 2200 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1220--0-- |
| 2700 pF    | 5.0                                | 11.0 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1270--0-- |
| 3300 pF    | 6.0                                | 12.0 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1330--0-- |
| 3900 pF    | 6.0                                | 12.0 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1390--0-- |
| 4700 pF    | 7.5                                | 13.5 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1470--0-- |
| 5600 pF    | 7.5                                | 13.5 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1560--0-- |
| 6800 pF    | 8.5                                | 14.5 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1680--0-- |
| 8200 pF    | 10.0                               | 16.0 | 18.0 | 15.0 | 30000               | 75 E6                                  | R73RI 1820--0-- |
| 8200 pF    | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 1820--0-- |
| 0.010 μF   | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2100--0-- |
| 0.012 μF   | 6.0                                | 15.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2120--0-- |
| 0.015 μF   | 7.0                                | 16.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2150--0-- |
| 0.018 μF   | 7.0                                | 16.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2180--0-- |
| 0.022 μF   | 8.5                                | 17.0 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2220--0-- |
| 0.027 μF   | 10.0                               | 18.5 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2270--0-- |
| 0.033 μF   | 10.0                               | 18.5 | 26.5 | 22.5 | 11000               | 27 E6                                  | R73RN 2330--0-- |
| 0.039 μF   | 9.0                                | 17.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 2390--0-- |
| 0.047 μF   | 11.0                               | 20.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 2470--0-- |
| 0.056 μF   | 11.0                               | 20.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 2560--0-- |
| 0.068 μF   | 13.0                               | 22.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 2680--0-- |
| 0.082 μF   | 13.0                               | 25.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 2820--1-- |
| 0.10 μF    | 13.0                               | 25.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3100--1-- |
| 0.12 μF    | 14.0                               | 28.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3120--1-- |
| 0.12 μF    | 18.0                               | 33.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3120--0-- |
| 0.15 μF    | 18.0                               | 33.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3150--0-- |
| 0.18 μF    | 18.0                               | 33.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3180--0-- |
| 0.22 μF    | 22.0                               | 37.0 | 32.0 | 27.5 | 11000               | 27 E6                                  | R73RR 3220--0-- |
| 0.082 μF   | 11.0                               | 22.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW2820--0--  |
| 0.10 μF    | 11.0                               | 22.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3100--0--  |
| 0.12 μF    | 11.0                               | 22.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3120--1--  |
| 0.12 μF    | 13.0                               | 24.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3120--0--  |
| 0.15 μF    | 13.0                               | 24.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3150--0--  |
| 0.18 μF    | 13.0                               | 24.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3180--1--  |
| 0.18 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3180--0--  |
| 0.22 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3220--0--  |
| 0.27 μF    | 16.0                               | 28.5 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3270--0--  |
| 0.33 μF    | 19.0                               | 32.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3330--0--  |
| 0.39 μF    | 20.0                               | 40.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3390--0--  |
| 0.47 μF    | 20.0                               | 40.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3470--0--  |
| 0.56 μF    | 20.0                               | 40.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3560--0--  |
| 0.68 μF    | 24.0                               | 44.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3680--0--  |
| 0.82 μF    | 30.0                               | 45.0 | 41.5 | 37.5 | 5500                | 14 E6                                  | R73RW3820--0--  |



All dimensions are in mm.

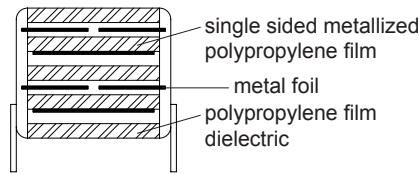
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.

The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%); \_\_\_\_\_

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS**

PRODUCT CODE: **R73**



**2 sections  
(1600Vdc)**

| Rated Cap. | 1600Vdc / 450Vac Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number     |
|------------|---------------------------------|------|------|------|------------------|---|-----------------|
|            | B                               | H    | L    | p    |                  |   |                 |
| 1000 pF    | 5.0                             | 11.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1100--0-- |
| 1200 pF    | 5.0                             | 11.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1120--0-- |
| 1500 pF    | 5.0                             | 11.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1150--0-- |
| 1800 pF    | 5.0                             | 11.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1180--0-- |
| 2200 pF    | 6.0                             | 12.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1220--0-- |
| 2700 pF    | 6.0                             | 12.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1270--0-- |
| 3300 pF    | 7.5                             | 13.5 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1330--0-- |
| 3900 pF    | 7.5                             | 13.5 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1390--0-- |
| 4700 pF    | 8.5                             | 14.5 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1470--0-- |
| 5600 pF    | 10.0                            | 16.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1560--0-- |
| 6800 pF    | 10.0                            | 16.0 | 18.0 | 15.0 | 34000            | 109 E6                                  | R73TI 1680--0-- |
| 5600 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 1560--0-- |
| 6800 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 1680--0-- |
| 8200 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 1820--0-- |
| 0.010 μF   | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 2100--0-- |
| 0.012 μF   | 7.0                             | 16.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 2120--0-- |
| 0.015 μF   | 8.5                             | 17.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 2150--0-- |
| 0.018 μF   | 8.5                             | 17.0 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 2180--0-- |
| 0.022 μF   | 10.0                            | 18.5 | 26.5 | 22.5 | 11000            | 35 E6                                   | R73TN 2220--0-- |
| 0.027 μF   | 9.0                             | 17.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2270--0-- |
| 0.033 μF   | 11.0                            | 20.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2330--0-- |
| 0.039 μF   | 11.0                            | 20.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2390--0-- |
| 0.047 μF   | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2470--0-- |
| 0.056 μF   | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2560--0-- |
| 0.068 μF   | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2680--1-- |
| 0.082 μF   | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 2820--0-- |
| 0.10 μF    | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 3100--0-- |
| 0.12 μF    | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 3120--0-- |
| 0.15 μF    | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 3150--0-- |
| 0.18 μF    | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 35 E6                                   | R73TR 3180--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

| Rated Cap. | 1600Vdc / 450Vac Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number     |
|------------|---------------------------------|------|------|------|------------------|---|-----------------|
|            | B                               | H    | L    | p    |                  |   |                 |
| 0.033 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2330--0-- |
| 0.039 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2390--0-- |
| 0.047 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2470--0-- |
| 0.056 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2560--0-- |
| 0.068 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2680--0-- |
| 0.082 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 2820--0-- |
| 0.10 μF    | 13.0                            | 24.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3100--0-- |
| 0.12 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3120--0-- |
| 0.15 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3150--0-- |
| 0.18 μF    | 16.0                            | 28.5 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3180--0-- |
| 0.22 μF    | 19.0                            | 32.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3220--0-- |
| 0.27 μF    | 20.0                            | 40.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3270--0-- |
| 0.33 μF    | 20.0                            | 40.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3330--0-- |
| 0.39 μF    | 24.0                            | 44.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3390--0-- |
| 0.47 μF    | 24.0                            | 44.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3470--1-- |
| 0.47 μF    | 30.0                            | 45.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3470--0-- |
| 0.56 μF    | 24.0                            | 44.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3560--1-- |
| 0.56 μF    | 30.0                            | 45.0 | 41.5 | 37.5 | 6500             | 21 E6                                   | R73TW 3560--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

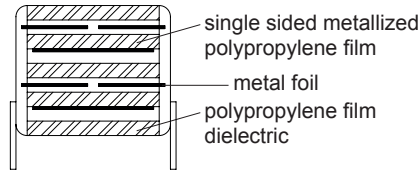
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V. The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.

The dv/dt test is carried out at 2 times the above values.

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS**

PRODUCT CODE: R73



**2 sections  
(2000Vdc)**

| Rated Cap. | 2000Vdc / 500Vac Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number     |
|------------|---------------------------------|------|------|------|------------------|---|-----------------|
|            | B                               | H    | L    | p    |                  |   |                 |
| 100 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0100--0-- |
| 150 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0150--0-- |
| 220 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0220--0-- |
| 330 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0330--0-- |
| 470 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0470--0-- |
| 680 pF     | 5.0                             | 11.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 0680--0-- |
| 1000 pF    | 6.0                             | 12.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1100--0-- |
| 1200 pF    | 6.0                             | 12.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1120--0-- |
| 1500 pF    | 7.5                             | 13.5 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1150--0-- |
| 1800 pF    | 7.5                             | 13.5 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1180--0-- |
| 2200 pF    | 8.5                             | 14.5 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1220--0-- |
| 2700 pF    | 10.0                            | 16.0 | 18.0 | 15.0 | 54000            | 216 E6                                  | R73UI 1270--0-- |
| 2700 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1270--0-- |
| 3300 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1330--0-- |
| 3900 pF    | 6.0                             | 15.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1390--0-- |
| 4700 pF    | 7.0                             | 16.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1470--0-- |
| 5600 pF    | 7.0                             | 16.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1560--0-- |
| 6800 pF    | 8.5                             | 17.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1680--0-- |
| 8200 pF    | 8.5                             | 17.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 1820--0-- |
| 0.010 μF   | 10.0                            | 18.5 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 2100--0-- |
| 0.012 μF   | 11.0                            | 20.0 | 26.5 | 22.5 | 11000            | 44 E6                                   | R73UN 2120--0-- |
| 0.010 μF   | 9.0                             | 17.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2100--0-- |
| 0.012 μF   | 9.0                             | 17.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2120--0-- |
| 0.015 μF   | 11.0                            | 20.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2150--0-- |
| 0.018 μF   | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2180--0-- |
| 0.022 μF   | 13.0                            | 22.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2220--0-- |
| 0.027 μF   | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2270--1-- |
| 0.033 μF   | 14.0                            | 28.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2330--1-- |
| 0.033 μF   | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2330--0-- |
| 0.039 μF   | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2390--0-- |
| 0.047 μF   | 18.0                            | 33.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2470--0-- |
| 0.056 μF   | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2560--0-- |
| 0.068 μF   | 22.0                            | 37.0 | 32.0 | 27.5 | 11000            | 44 E6                                   | R73UR 2680--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

| Rated Cap. | 2000Vdc / 500Vac Std dimensions |      |      |      | Max dv/dt (V/μs) | Max K <sub>0</sub> (V <sup>2</sup> /μs) | Part Number     |
|------------|---------------------------------|------|------|------|------------------|---|-----------------|
|            | B                               | H    | L    | p    |                  |   |                 |
| 0.018 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2180--0-- |
| 0.022 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2220--0-- |
| 0.027 μF   | 11.0                            | 22.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2270--0-- |
| 0.033 μF   | 13.0                            | 24.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2330--0-- |
| 0.039 μF   | 13.0                            | 24.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2390--0-- |
| 0.047 μF   | 16.0                            | 28.5 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2470--0-- |
| 0.056 μF   | 16.0                            | 28.5 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2560--0-- |
| 0.068 μF   | 16.0                            | 28.5 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2680--0-- |
| 0.082 μF   | 19.0                            | 32.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 2820--0-- |
| 0.10 μF    | 20.0                            | 40.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 3100--0-- |
| 0.12 μF    | 20.0                            | 40.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 3120--0-- |
| 0.15 μF    | 24.0                            | 44.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 3150--0-- |
| 0.18 μF    | 30.0                            | 45.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 3180--0-- |
| 0.22 μF    | 30.0                            | 45.0 | 41.5 | 37.5 | 9000             | 36 E6                                   | R73UW 3220--0-- |

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V. The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.

The dv/dt test is carried out at 2 times the above values.

**FILM-FOIL POLYPROPYLENE CAPACITOR  
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**ELECTRICAL CHARACTERISTICS**

**Rated voltage ( $V_R$ ):**

100 Vdc - 160 Vdc - 250 Vdc - 400 Vdc  
for 1 section.

630 Vdc - 1000 Vdc - 1250 Vdc - 1600 Vdc - 2000 Vdc  
for 2 sections.

**Rated temperature ( $T_R$ ):** +85°C

**Temperature derated voltage:**

for temperatures between +85°C and +105°C a decreasing factor of 1.25% per degree °C on the rated voltage  $V_R$  (d.c. and a.c.), has to be applied.

**Capacitance range**

0.010µF to 0.15µF 1 section  
100pF to 2.2 µF 2 sections

**Capacitance values:**

E6 series (IEC 60063 Norm)  
for 1 section and 2 sections (values <1nF)  
E12 series (IEC 60063 Norm)  
for 2 sections (values >1nF)

**Capacitance tolerances** (measured at 1 kHz):

±5% (J); ±10% (K) for 1 section  
±2.5% (H); ±5% (J); ±10% (K) for 2 sections

**Total self inductance (L):**

(Leads length ~2 mm)

|            |    |      |      |      |
|------------|----|------|------|------|
| Pitch (mm) | 15 | 22.5 | 27.5 | 37.5 |
| L (nH) ≈   | 10 | 18   | 18   | 20   |

**Dissipation factor (DF):**

tgδ 10<sup>-4</sup> at +25°C ±5°C

| kHz | C≤0.1µF | 0.1µF<C≤1.0µF | C>1µF |
|-----|---------|---------------|-------|
| 1   | ≤ 3     | ≤3            | ≤3    |
| 10  | ≤ 4     | ≤6            |       |
| 100 | ≤10     |               |       |

**Insulation resistance:**

**Test conditions**

Temperature: +25°C±5°C  
Voltage charge time: 1 min  
Voltage charge: 100Vdc

**Performance**

≥1x10<sup>5</sup> MΩ for C≤0.33µF (5x10<sup>5</sup> MΩ)\*  
≥30000 s for C>0.33µF (150000 s)\*

\*Typical value

**Test voltage between terminations:**

2.5xV<sub>R</sub> for 1 section  
2.0xV<sub>R</sub> for 2 sections  
applied for 2 s at 25°C± 5°C

**TEST METHOD AND PERFORMANCE**

**Damp heat, steady state:**

**Test conditions**

Temperature: +40°C±2°C  
Relative humidity (RH): 93% ±2%  
Test duration: 56 days

**Performance**

Capacitance change |ΔC/C|: ≤2%  
DF change (Δtgδ): ≤5x10<sup>-4</sup> at 1KHz  
Insulation resistance: ≥50% of initial limit.

**Endurance:**

**Test conditions**

Temperature: +85°C±2°C  
Test duration: 1000 h  
Voltage applied: 1.5xV<sub>R</sub>

**Performance**

Capacitance change |ΔC/C|: ≤2%  
DF change (Δtgδ): ≤5x10<sup>-4</sup> at 1KHz  
Insulation resistance: ≥50% of initial limit.

**Resistance to soldering heat:**

**Test conditions**

Solder bath temperature: +260°C±5°C  
Dipping time (with heat screen):10 s±1 s

**Performance**

Capacitance change |ΔC/C| ≤1%  
DF change (Δtgδ): ≤5x10<sup>-4</sup> at 1KHz  
Insulation resistance: ≥ initial limit.

**Long term stability** (after two years):

**Storage:** standard environmental conditions (see page 12).

**Performance**

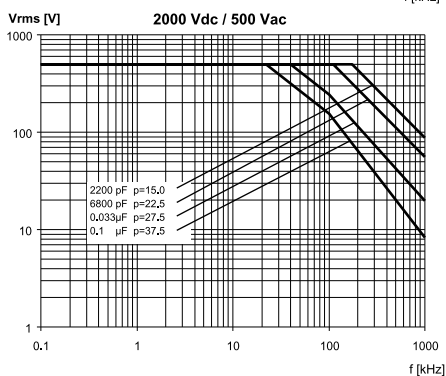
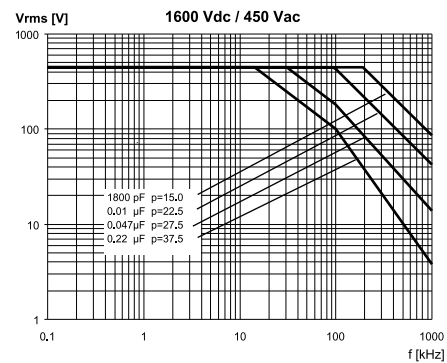
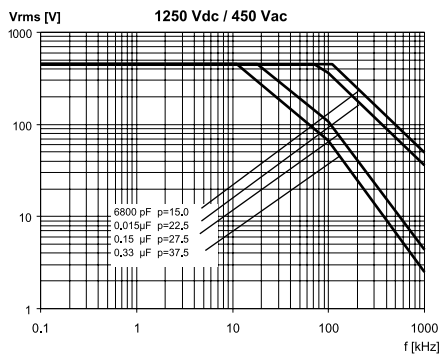
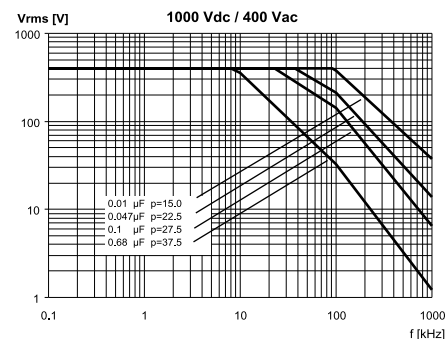
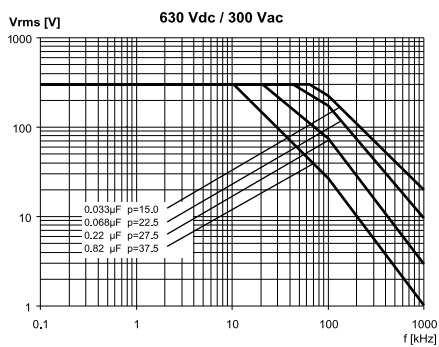
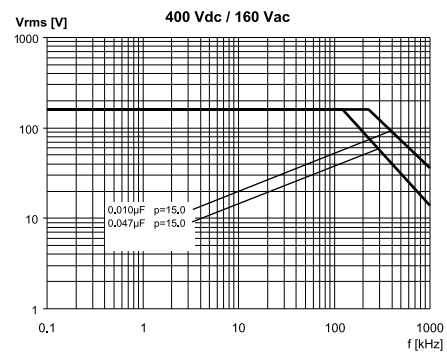
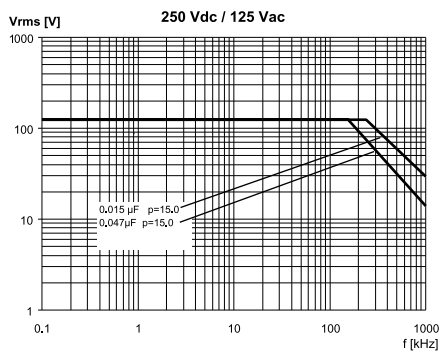
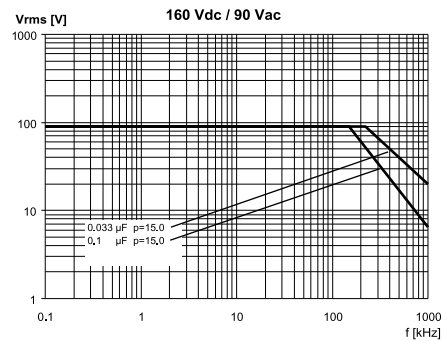
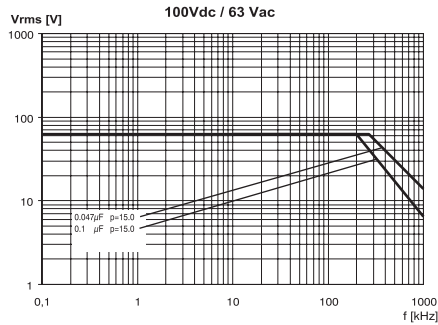
Capacitance change |ΔC/C|: ≤0.5%



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MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)

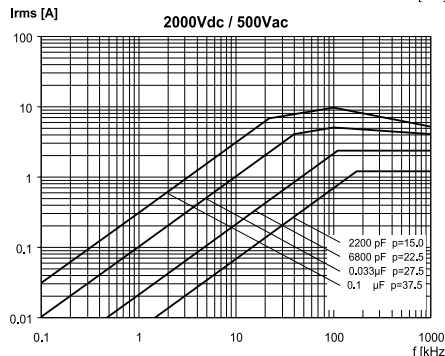
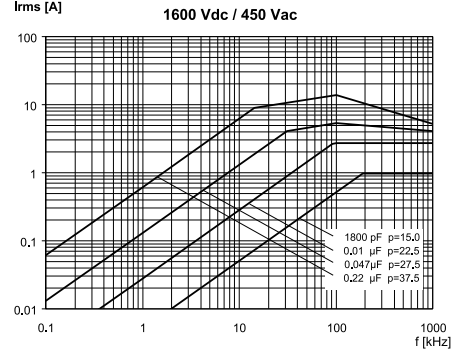
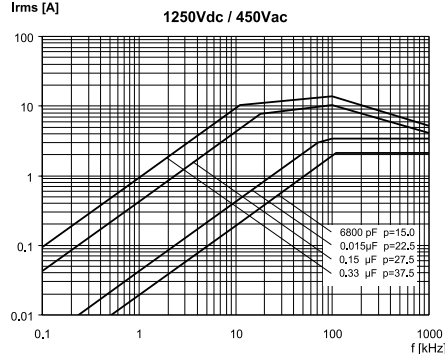
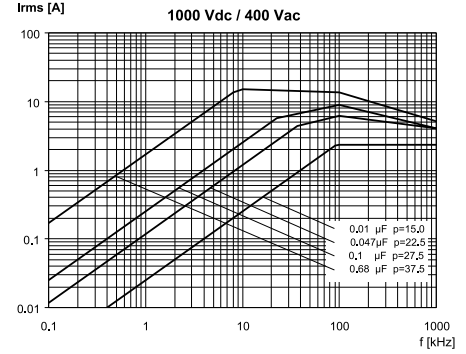
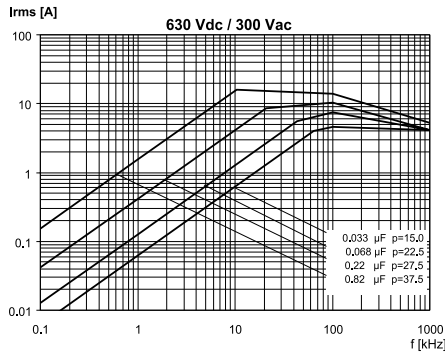
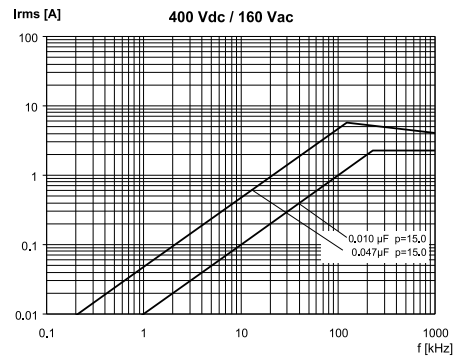
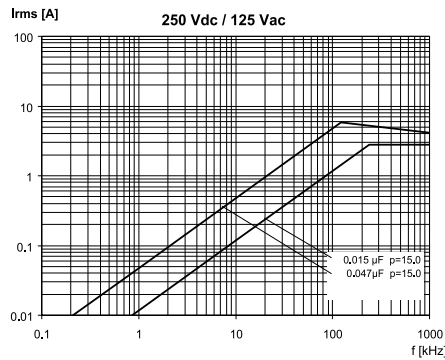
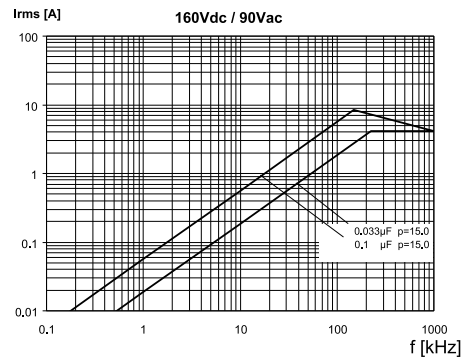
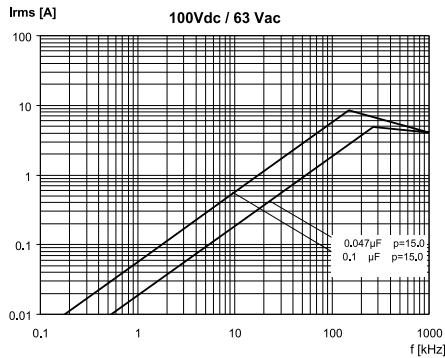


Note: p (pitch) in mm.

**FILM-FOIL POLYPROPYLENE CAPACITOR  
HIGH CURRENT APPLICATIONS.**

PRODUCT CODE: **R73**

MAX. CURRENT (I<sub>r.m.s.</sub>) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)



Note: p (pitch) in mm.