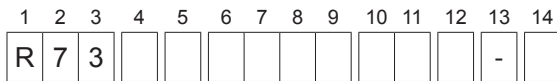


All dimensions are in mm

**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.

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**

**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 (mm)	Box thickness (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

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

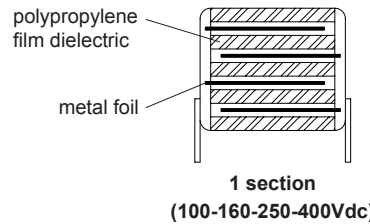
PRODUCT CODE: R73

Rated Cap.	100Vdc / 63Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.047 μF	5.0	11.0	18.0	15.0	2400	0.48 E6	R73EI 2470-0--
0.068 μF	6.0	12.0	18.0	15.0	2400	0.48 E6	R73EI 2680-0--
0.10 μF	7.5	13.5	18.0	15.0	2400	0.48 E6	R73EI 3100-0--
0.15 μF	10.0	16.0	18.0	15.0	2400	0.48 E6	R73EI 3150-0--

Rated Cap.	160Vdc / 90Vac 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	5.0	11.0	18.0	15.0	3000	0.96 E6	R73GI 2330-0--
0.047 μF	6.0	12.0	18.0	15.0	3000	0.96 E6	R73GI 2470-0--
0.068 μF	7.5	13.5	18.0	15.0	3000	0.96 E6	R73GI 2680-0--
0.10 μF	10.0	16.0	18.0	15.0	3000	0.96 E6	R73GI 3100-0--

Rated Cap.	250Vdc / 125Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.015 μF	5.0	11.0	18.0	15.0	4800	2.4 E6	R73II 2150-0--
0.022 μF	6.0	12.0	18.0	15.0	4800	2.4 E6	R73II 2220-0--
0.033 μF	7.5	13.5	18.0	15.0	4800	2.4 E6	R73II 2330-0--
0.047 μF	10.0	16.0	18.0	15.0	4800	2.4 E6	R73II 2470-0--

Rated Cap.	400Vdc / 160Vac 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	6000	4.8 E6	R73MI 2100-0--
0.015 μF	6.0	12.0	18.0	15.0	6000	4.8 E6	R73MI 2150-0--
0.022 μF	7.5	13.5	18.0	15.0	6000	4.8 E6	R73MI 2220-0--
0.033 μF	8.5	14.5	18.0	15.0	6000	4.8 E6	R73MI 2330-0--
0.047 μF	10.0	16.0	18.0	15.0	6000	4.8 E6	R73MI 2470-0--



All dimensions are in mm.

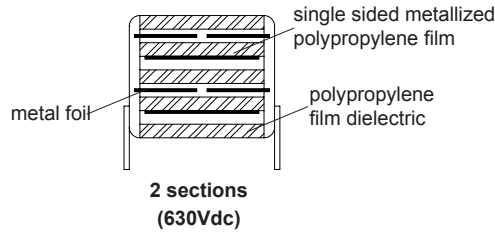
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V. The pulse characteristic K<sub>0</sub> depends on 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.

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

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

**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--

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%); \_\_\_\_\_

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

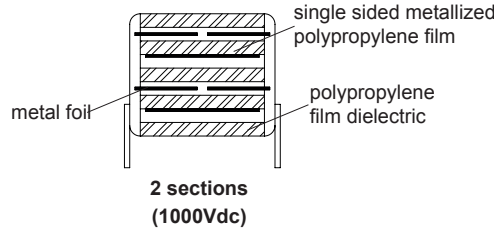
All dimensions are in mm.

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 across-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 Std dimensions				Max dv/dt (V/μs)	K <sub>0</sub> (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 Std dimensions				Max dv/dt (V/μs)	K <sub>0</sub> (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%); \_\_\_\_\_

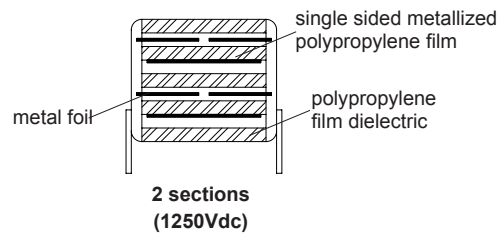
All dimensions are in mm.

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 Std dimensions				Max dv/dt (V/μs)	K <sub>0</sub> (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.

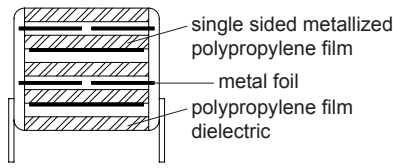
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.

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%) \_\_\_\_\_

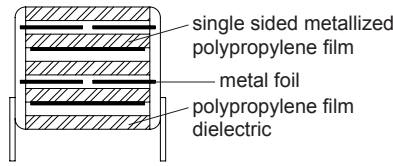
All dimensions are in mm.

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  
HIGH CURRENT APPLICATIONS.**

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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**

0.010 $\mu$ F to 0.15 $\mu$ F 1 section

100pF to 2.2  $\mu$ F 2 sections

**Capacitance values:**

E6 series (IEC 60063 Norm)

for 1 section and 2 sections (values <1nF)

E12series (IEC 60063 Norm)

for 2 sections (values >1nF)

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

$\pm 5\%$  (J);  $\pm 10\%$  (K) for 1 section

$\pm 2.5\%$  (H);  $\pm 5\%$  (J);  $\pm 10\%$  (K) for 2 sections

**Total self inductance (L):**

(Leads length ~2 mm)

Pitch (mm)	15	22.5	27.5	37.5
L (nH) $\approx$	10	18	18	20

**Dissipation factor (DF):**

$\text{tg} \delta 10^{-4}$  at +25°C  $\pm 5^\circ\text{C}$

kHz	C $\leq$ 0.1 $\mu$ F	0.1 $\mu$ F<C $\leq$ 1.0 $\mu$ F	C>1 $\mu$ F
1	$\leq 3$	$\leq 3$	$\leq 3$
10	$\leq 4$	$\leq 6$	
100	$\leq 10$		

**Insulation resistance:**

**Test conditions**

Temperature: +25°C $\pm 5^\circ\text{C}$

Voltage charge time: 1 min

Voltage charge: 100Vdc

**Performance**

$\geq 1 \times 10^5 \text{ M}\Omega$  for C $\leq$ 0.33 $\mu$ F ( $5 \times 10^5 \text{ M}\Omega$ )\*

$\geq 30000 \text{ s}$  for C>0.33 $\mu$ F (150000 s)\*

\*Typical value

**Test voltage between terminations:**

2.5x $V_R$  for 1 section

2.0x $V_R$  for 2 sections

applied for 2 s at 25°C $\pm 5^\circ\text{C}$

**TEST METHOD AND PERFORMANCE**

**Damp heat, steady state:**

**Test conditions**

Temperature: +40°C $\pm 2^\circ\text{C}$

Relative humidity (RH): 93%  $\pm 2\%$

Test duration: 56 days

**Performance**

Capacitance change  $|\Delta C/C|$ :  $\leq 2\%$

DF change ( $\Delta \text{tg} \delta$ ):  $\leq 5 \times 10^{-4}$  at 1KHz

Insulation resistance:  $\geq 50\%$  of initial limit.

**Endurance:**

**Test conditions**

Temperature: +85°C $\pm 2^\circ\text{C}$

Test duration: 1000 h

Voltage applied: 1.5x $V_R$

**Performance**

Capacitance change  $|\Delta C/C|$ :  $\leq 2\%$

DF change ( $\Delta \text{tg} \delta$ ):  $\leq 5 \times 10^{-4}$  at 1KHz

Insulation resistance:  $\geq 50\%$  of initial limit.

**Resistance to soldering heat:**

**Test conditions**

Solder bath temperature: +260°C $\pm 5^\circ\text{C}$

Dipping time (with heat screen): 10  $\pm 1$  s

**Performance**

Capacitance change  $|\Delta C/C|$ :  $\leq 1\%$

DF change ( $\Delta \text{tg} \delta$ ):  $\leq 5 \times 10^{-4}$  at 1KHz

Insulation resistance:  $\geq$  initial limit.

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

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

**Performance**

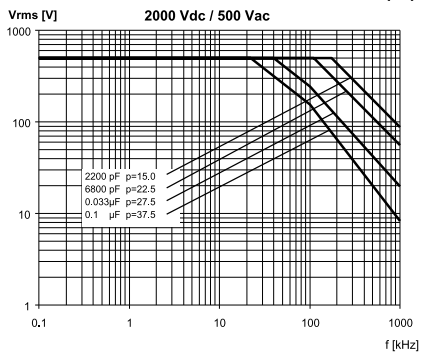
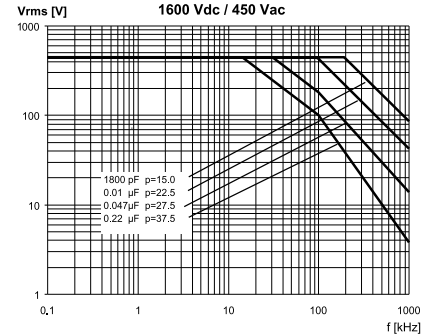
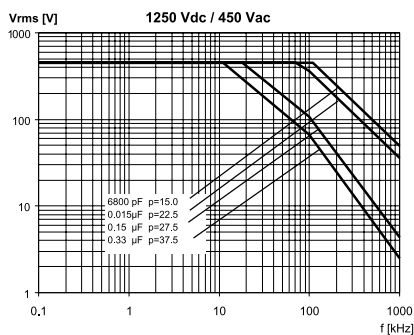
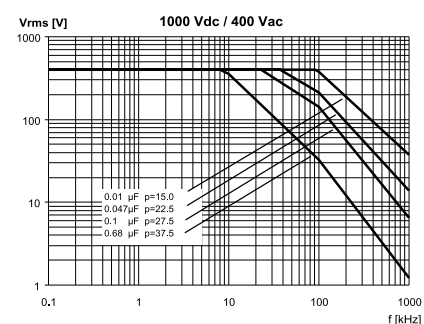
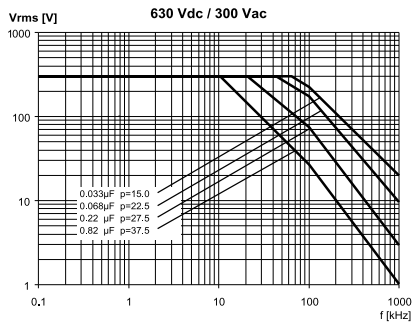
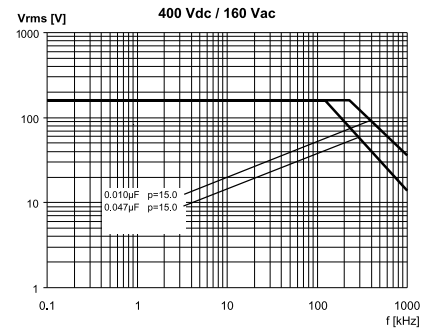
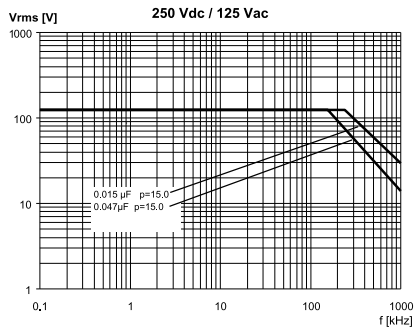
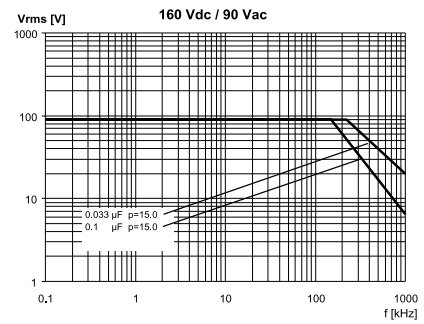
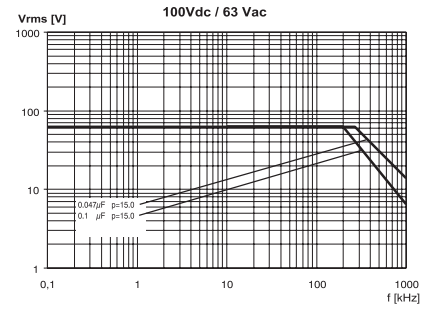
Capacitance change  $|\Delta C/C|$ :  $\leq 0.5\%$



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

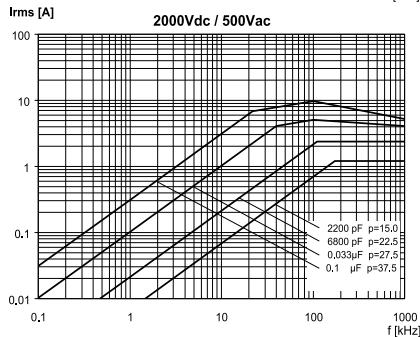
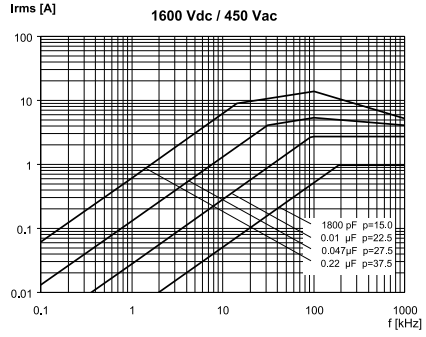
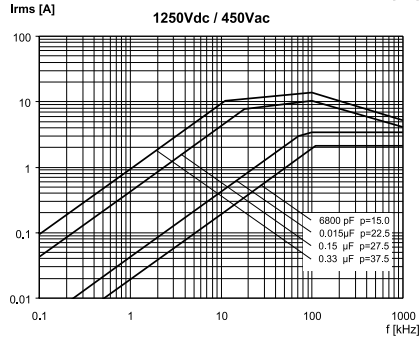
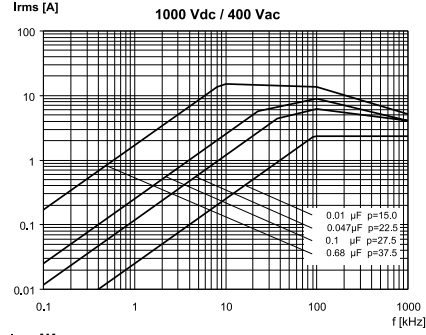
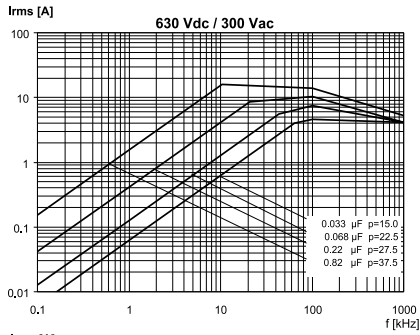
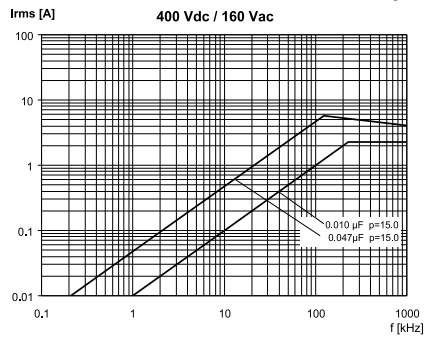
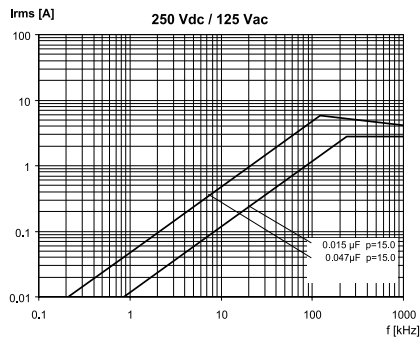
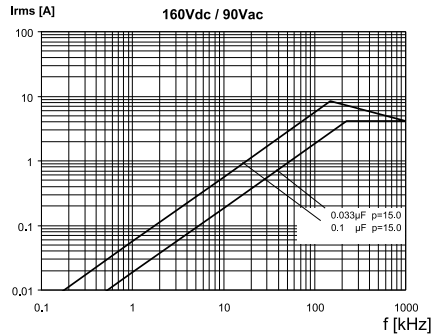
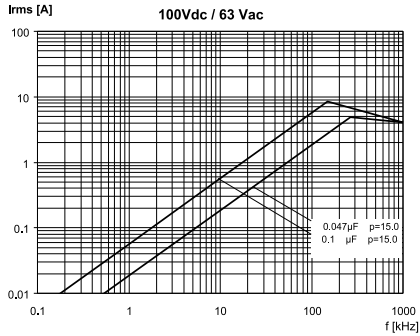


Note: p (pitch) in mm.

**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.