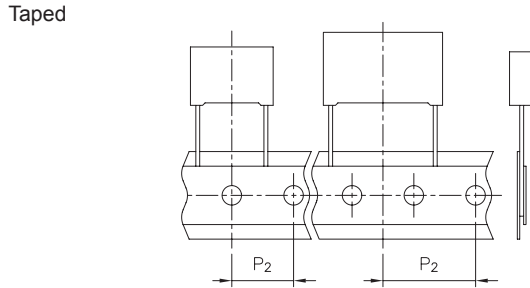


Fig. 1

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 (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

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 ₂ (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 ⁺²				SE
Loose, long leads	30 ⁺⁵				40
Loose, long leads	25 ^{+2/-1}				50

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

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

PRODUCT CODE: R73

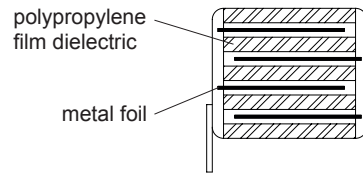
Rated Cap.	100Vdc / 63Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.047 μF	5.0	11.0	18.0	15.0	2400	0.48 E6	R73EI 2470--0--
0.068 μF	6.0	12.0	18.0	15.0	2400	0.48 E6	R73EI 2680--0--
0.10 μF	7.5	13.5	18.0	15.0	2400	0.48 E6	R73EI 3100--0--
0.15 μF	10.0	16.0	18.0	15.0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

Rated Cap.	160Vdc / 90Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /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 ₀ (V ² /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 ₀ (V ² /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--

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



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

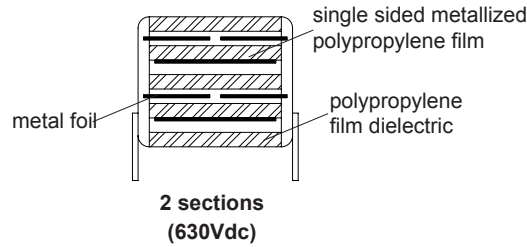
All dimensions are in mm.

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 K₀ 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 ₀ (V ² /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 ₀ (V ² /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%); _____

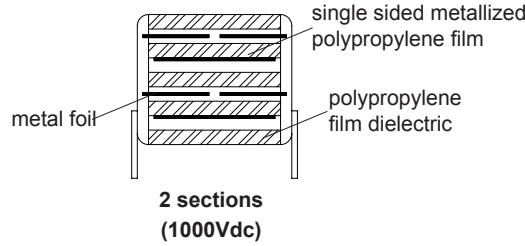
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_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 K₀ 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 Std dimensions				Max dv/dt (V/μs)	K ₀ (V ² /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 ₀ (V ² /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%); _____

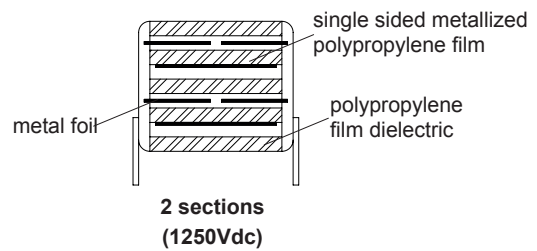
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_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 K₀ 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 ₀ (V ² /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.

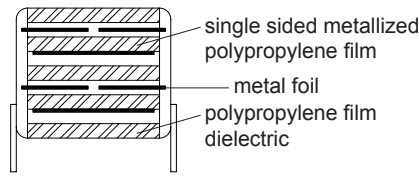
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.

The pulse characteristic K₀ 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 ₀ (V ² /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 ₀ (V ² /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%) _____

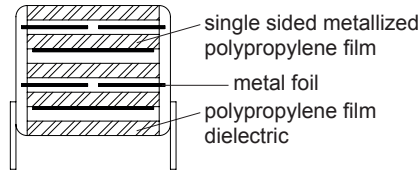
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_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 K₀ 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 ₀ (V ² /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 ₀ (V ² /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_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 K₀ 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

0.010µF 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 10⁻⁴ 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

≥1x10⁵ MΩ for C≤0.33µF (5x10⁵ MΩ)*
≥30000 s for C>0.33µF (150000 s)*

*Typical value

Test voltage between terminations:

2.5xV_R for 1 section
2.0xV_R 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): ≤5x10⁻⁴ at 1KHz
Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions

Temperature: +85°C±2°C
Test duration: 1000 h
Voltage applied: 1.5xV_R

Performance

Capacitance change |ΔC/C|: ≤2%
DF change (Δtgδ): ≤5x10⁻⁴ 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): ≤5x10⁻⁴ at 1KHz
Insulation resistance: ≥ initial limit.

Long term stability (after two years):

Storage: standard environmental conditions (see page 12).

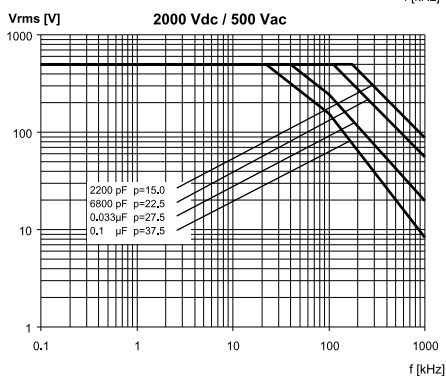
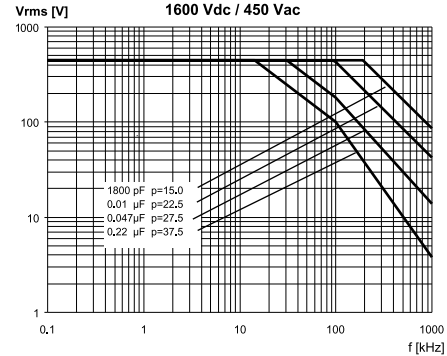
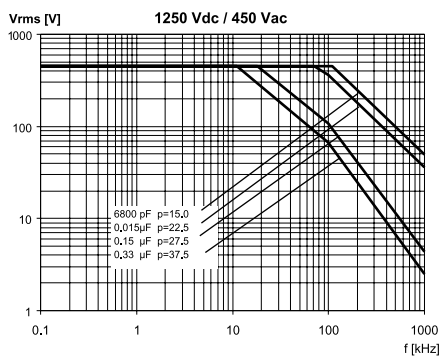
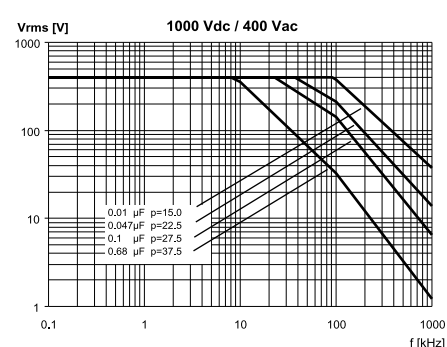
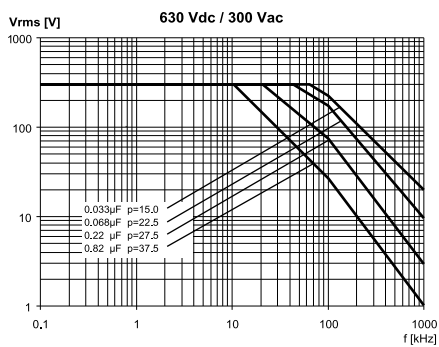
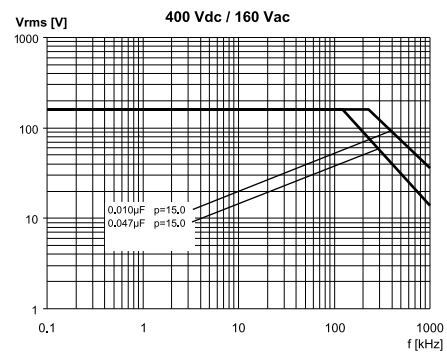
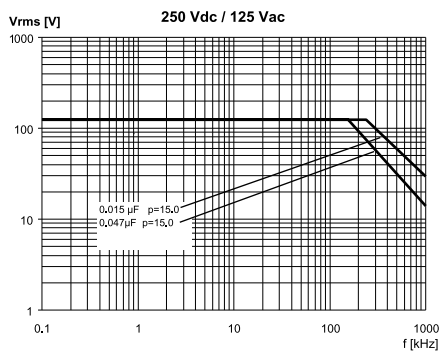
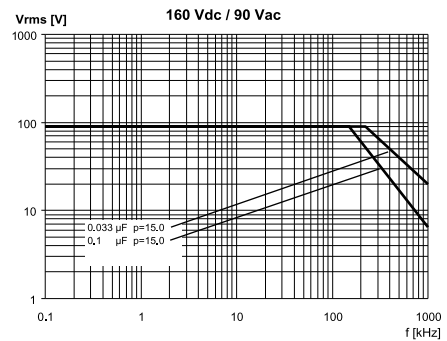
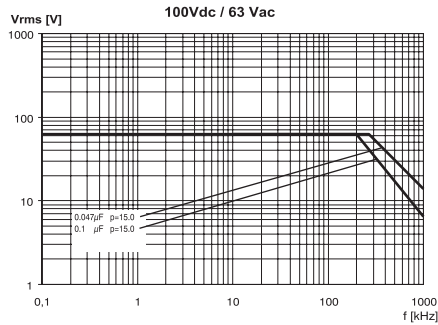
Performance

Capacitance change |ΔC/C|: ≤0.5%

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

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

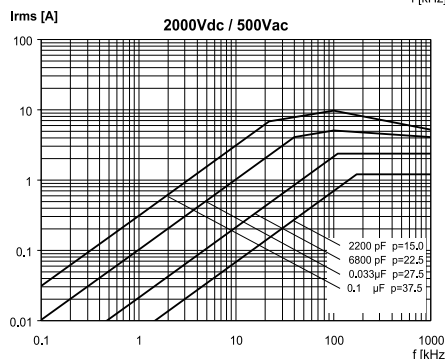
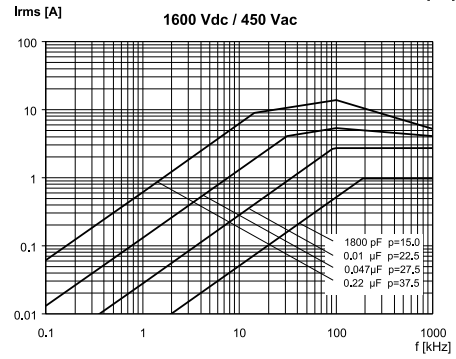
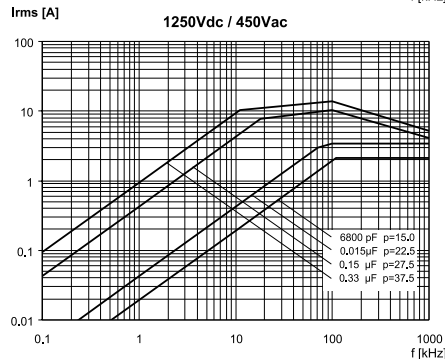
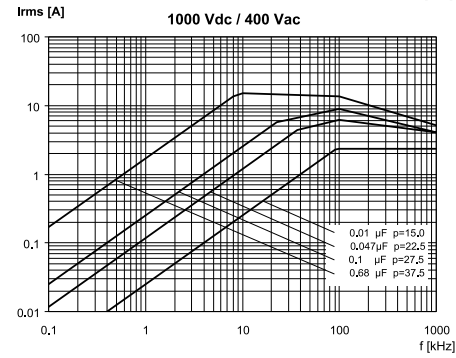
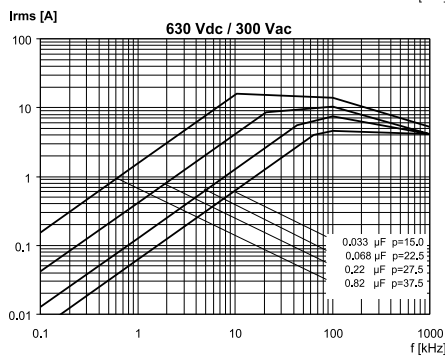
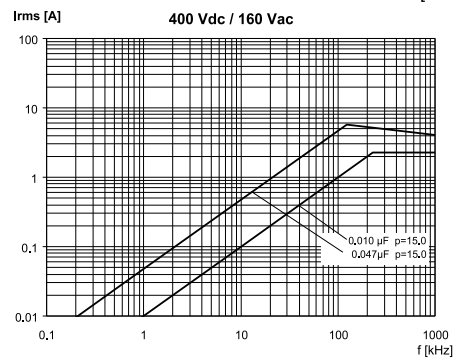
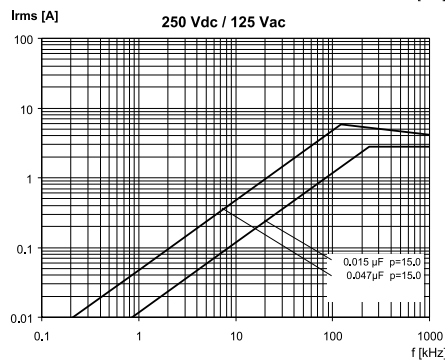
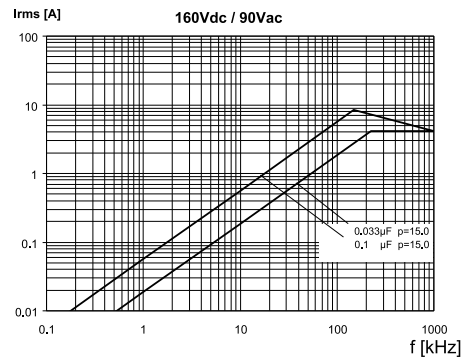
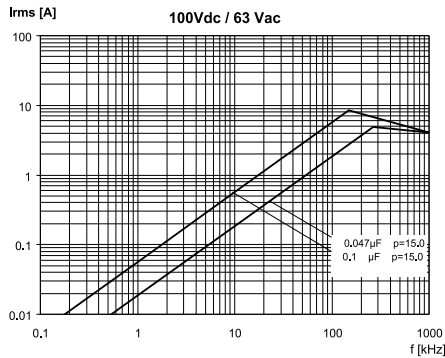


Note: p (pitch) in mm.

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

PRODUCT CODE: **R73**

MAX. CURRENT (I_{r.m.s.}) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)



Note: p (pitch) in mm.

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.