R73
KP Series

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**

NOT FOR NEW DESIGN.
PLEASE USE SERIES R76 OR R77 INSTEAD

Loose

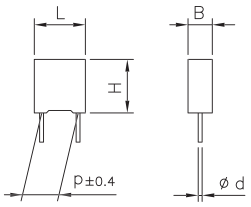
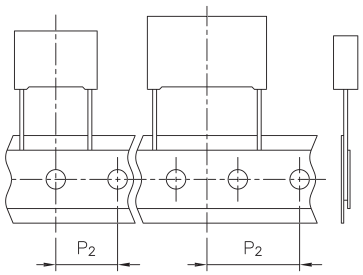


Fig. 1 Fig. 2

Taped



Ød±0.05	15 ≤ p ≤27.5	p = 37.5
	0.8	1.0

All dimensions are in mm

Pitch	Box thickness	Maximum dimensions (mm)		
(mm)	(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

PRODUCT CODE SYSTEM

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	7	3										-	

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.

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 P_2 (mm)	Taping style Fig. (No.)	Taping style Pitch (mm)	Ordering code (Digit 10 to 11)
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.

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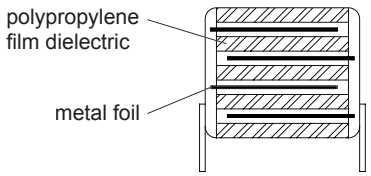
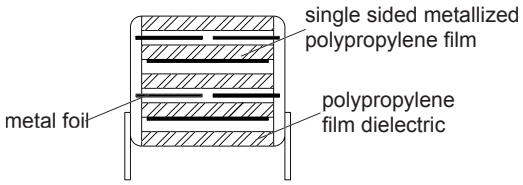


1 section
(100-160-250-400Vdc)



2 sections
(1000-1250Vdc)

Rated Cap.	100Vdc / 63Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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 B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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 B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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 B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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%)

Rated Cap.	630Vdc / 300Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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	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	15.0	24.5	32.0	27.5	11000	14.0 E6	R73PR 3270--0--
*0.33 µF	14.0	28.0	32.0	27.5	11000	14.0 E6	R73PR 3330--0--
*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	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	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--

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 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.

*This value is available in pitch 37.5 mm upon request

**Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 167).

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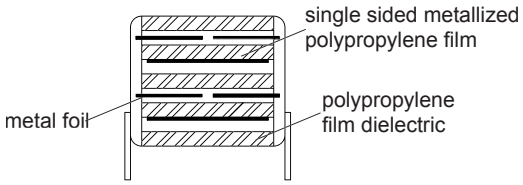

2 sections
(1000-1250Vdc)

Rated Cap.	1000Vdc / 400Vac Std dimensions				Max dv/dt	K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
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	10.0	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	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	15.0	24.5	32.0	27.5	11000	22 E6	R73QR 3180--3--
*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--
0.39 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--

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

Rated Cap.	1250Vdc / 450Vac Std dimensions				Max dv/dt	K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
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	15.0	24.5	32.0	27.5	11000	27 E6	R73RR 2820--0--
*0.10 µF	15.0	24.5	32.0	27.5	11000	27 E6	R73RR 3100--0--
*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--
0.27 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--

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 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.

*These values are available in pitch 37.5 mm upon request..

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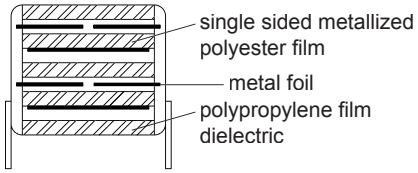


2 sections
(1600-2000Vdc)

Rated Cap.	1600Vdc / 450Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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	15.0	24.5	32.0	27.5	11000	35 E6	R73TR 2680--0--
*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--
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--

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

Rated Cap.	2000Vdc / 500Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
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--
0.012 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	15.0	24.5	32.0	27.5	11000	44 E6	R73UR 2270--0--
*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--
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--

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 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.

* These values are available in pitch 37.5 mm upon request.

R73
KP Series

FILM-FOIL POLYPROPYLENE CAPACITOR
HIGH CURRENT APPLICATIONS.

PRODUCT CODE: **R73**

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 1.5 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
≥1x10^5 MΩ for C≤0.33µF (5x10^5 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).

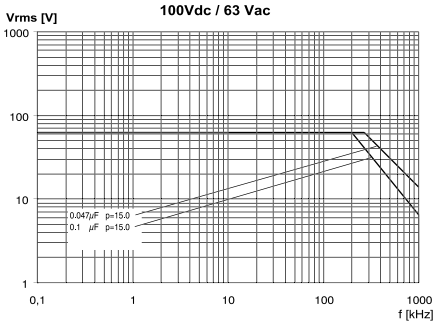
Performance
Capacitance change |ΔC/C|: ≤0.5%

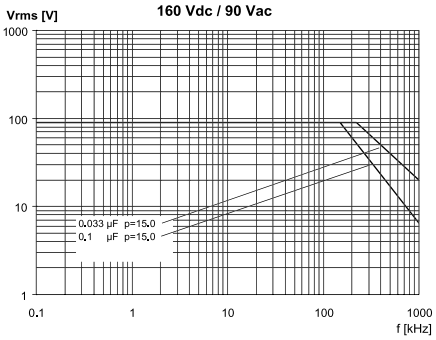
R73
KP Series

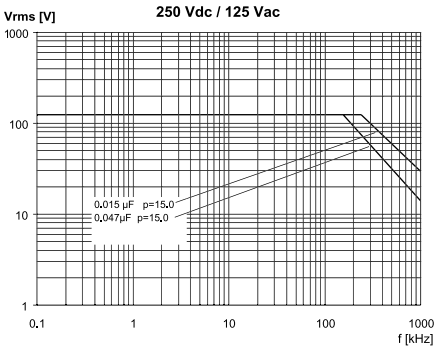
FILM-FOIL POLYPROPYLENE CAPACITOR
HIGH CURRENT APPLICATIONS.

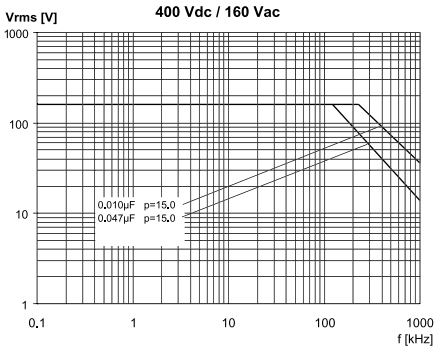
PRODUCT CODE: **R73**

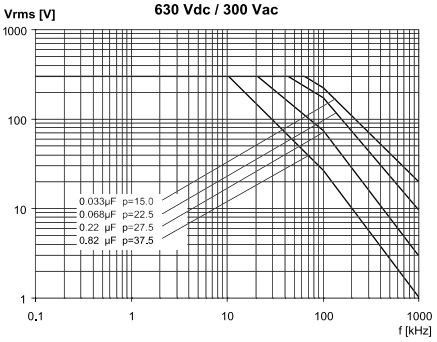
MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)

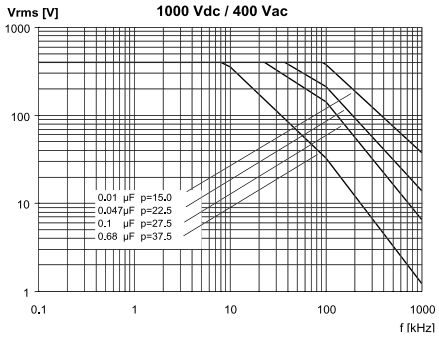


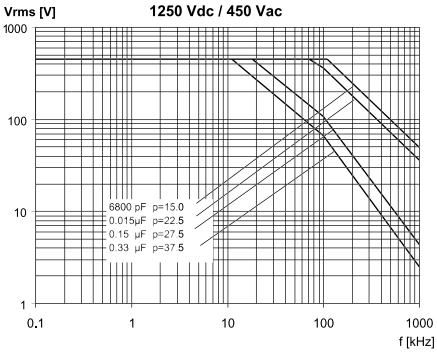


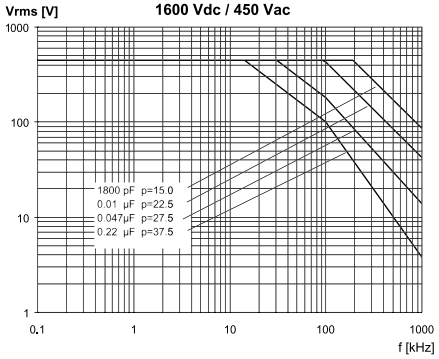


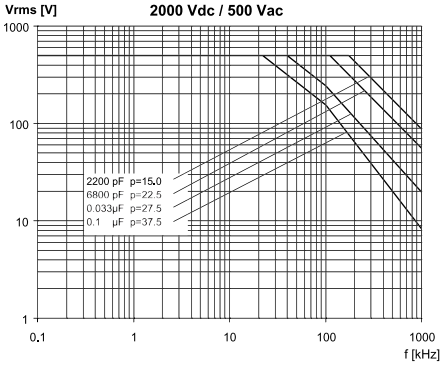












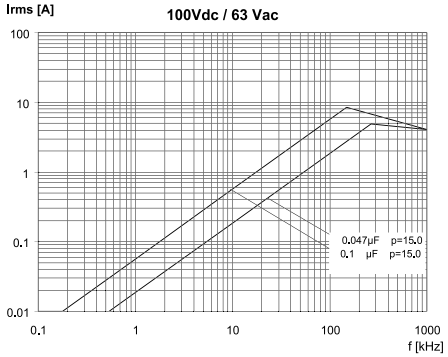
Note: p (pitch) in mm.

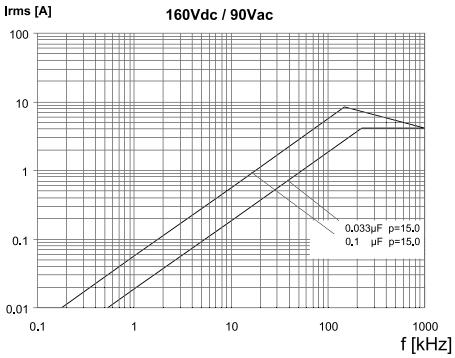
R73
KP Series

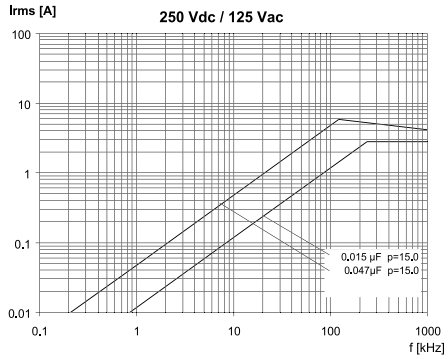
FILM-FOIL POLYPROPYLENE CAPACITOR
HIGH CURRENT APPLICATIONS.

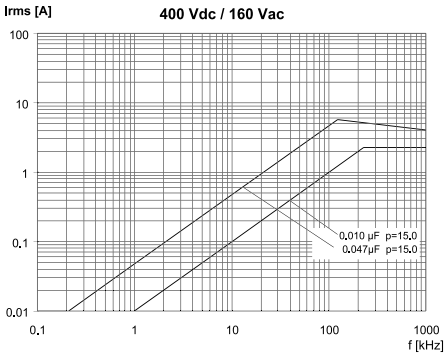
PRODUCT CODE: **R73**

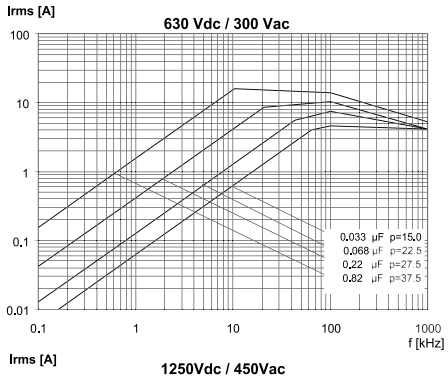
MAX. CURRENT (Ir.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)

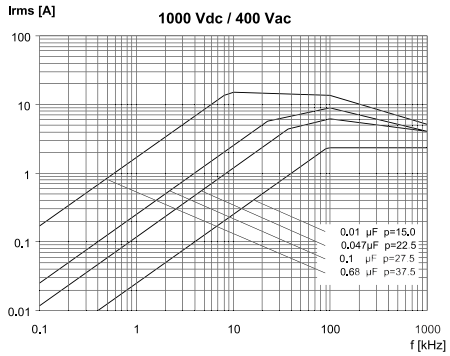


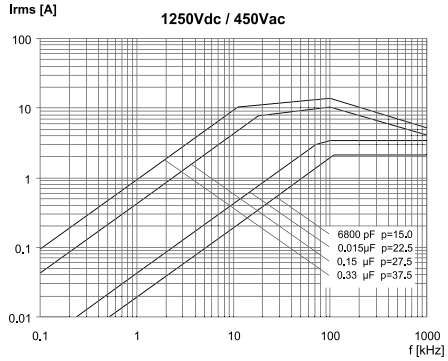


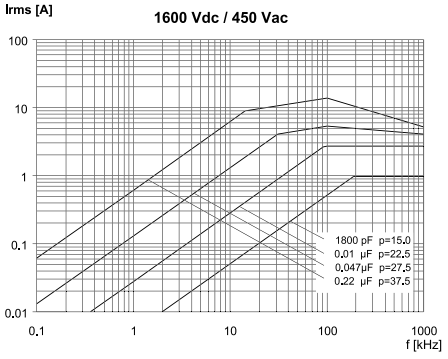


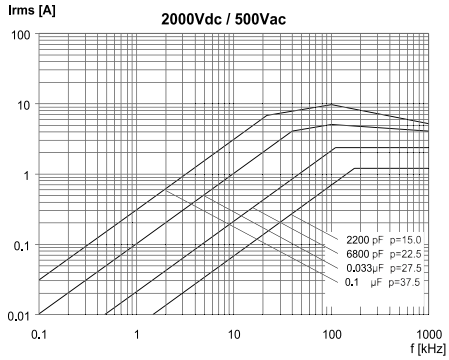












Note: p (pitch) in mm.