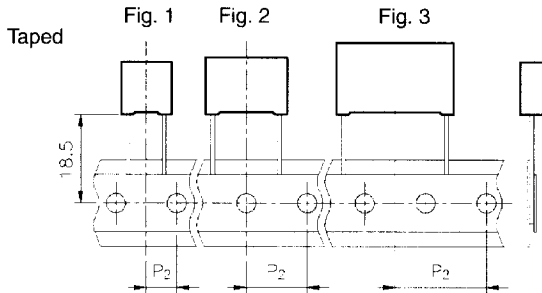
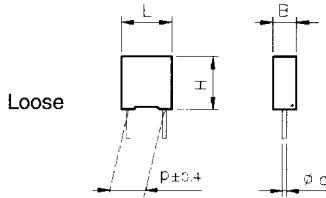


**FILM-FOIL POLYPROPYLENE CAPACITOR
HIGH CURRENT APPLICATIONS**

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.**

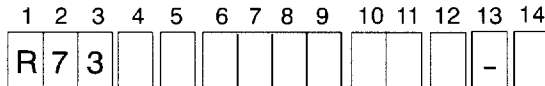


∅ d ± 0.05	p ≤ 10	15 ≤ p ≤ 27.5	p = 37.5
	0.6	0.8	1.0

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 P = 630V
for 2 sections
P = 630V Q = 1000V R = 1250V
T = 1600V U = 2000V
- Digit 5 Pitch:
D = 7.5mm; F = 10 mm; 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:** 1 section (white colour):
capacitance, tolerance, D.C. rated voltage.
2 sections (black colour):
capacitance, tolerance, D.C. rated voltage,
manufacturer's logo, series (R73), dielectric code (KP), manufacturing date code.
- Climatic category:** 55/100/56 IEC 60068-1
- Operating temperature range:** -55 to +105°C
- Related documents:** IEC 60384-13

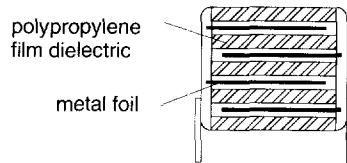
Table 1 (for more detailed information, please refer to page 15 and 16).

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL ∅ 355mm		6.35	1	7.5	CK
REEL ∅ 355mm		12.70	2	10.0/15.0	GY
REEL ∅ 500mm		12.70	2	10.0/15.0	CK
REEL ∅ 500mm		19.05	3	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



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

Rated Cap.	100Vdc / 63Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
6800pF	4.0	9.0	10.5	7.5	10000	2.00 E6	R73ED1680--0--
0.010μF	5.0	11.0	10.5	7.5	10000	2.00 E6	R73ED2100--0--
0.015μF	6.0	12.0	10.5	7.5	10000	2.00 E6	R73ED2150--0--
0.015μF	4.0	9.0	13.0	10.0	4800	0.96 E6	R73EF2150--0--
0.022μF	5.0	11.0	13.0	10.0	4800	0.96 E6	R73EF2220--0--
0.033μF	6.0	12.0	13.0	10.0	4800	0.96 E6	R73EF2330--0--
0.047μF	5.0	11.0	18.0	15.0	2400	0.48 E6	R73EI 2470--0--
0.068μF	6.0	12.0	18.0	15.0	2400	0.48 E6	R73EI 2680--0--
0.10μF	7.5	13.5	18.0	15.0	2400	0.48 E6	R73EI 3100--0--
0.15μF	10.0	16.0	18.0	15.0	2400	0.48 E6	R73EI 3150--0--

Rated Cap.	250Vdc / 125Vac*				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
2200pF	4.0	9.0	10.5	7.5	21000	11.0 E6	R73ID1220--0--
3300pF	5.0	11.0	10.5	7.5	21000	11.0 E6	R73ID1330--0--
4700pF	6.0	12.0	10.5	7.5	21000	11.0 E6	R73ID1470--0--
3300pF	4.0	9.0	13.0	10.0	9900	5.0 E6	R73IF 1330--0--
4700pF	4.0	9.0	13.0	10.0	9900	5.0 E6	R73IF 1470--0--
6800pF	5.0	11.0	13.0	10.0	9900	5.0 E6	R73IF 1680--0--
0.010μF	6.0	12.0	13.0	10.0	9900	5.0 E6	R73IF 2100--0--
0.015μF	5.0	11.0	18.0	15.0	4800	2.4 E6	R73II 2150--0--
0.022μF	6.0	12.0	18.0	15.0	4800	2.4 E6	R73II 2220--0--
0.033μF	7.5	13.5	18.0	15.0	4800	2.4 E6	R73II 2330--0--
0.047μF	10.0	16.0	18.0	15.0	4800	2.4 E6	R73II 2470--0--

Rated Cap.	160Vdc / 90Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
3300pF	4.0	9.0	10.5	7.5	14000	4.50 E6	R73GD1330--0--
4700pF	4.0	9.0	10.5	7.5	14000	4.50 E6	R73GD1470--0--
6800pF	5.0	11.0	10.5	7.5	14000	4.50 E6	R73GD1680--0--
0.010μF	6.0	12.0	10.5	7.5	14000	4.50 E6	R73GD2100--0--
6800pF	4.0	9.0	13.0	10.0	6300	2.00 E6	R73GF 1680--0--
0.010μF	5.0	11.0	13.0	10.0	6300	2.00 E6	R73GF2100--0--
0.015μF	5.0	11.0	13.0	10.0	6300	2.00 E6	R73GF2150--0--
0.022μF	6.0	12.0	13.0	10.0	6300	2.00 E6	R73GF2220--0--
0.033μF	5.0	11.0	18.0	15.0	3000	0.96 E6	R73GI 2330--0--
0.047μF	6.0	12.0	18.0	15.0	3000	0.96 E6	R73GI 2470--0--
0.068μF	7.5	13.5	18.0	15.0	3000	0.96 E6	R73GI 2680--0--
0.10μF	10.0	16.0	18.0	15.0	3000	0.96 E6	R73GI 3100--0--

Rated Cap.	400Vdc / 160Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
1000pF	4.0	9.0	10.5	7.5	26000	21.0 E6	R73MD1100--0--
1500pF	4.0	9.0	10.5	7.5	26000	21.0 E6	R73MD1150--0--
2200pF	5.0	11.0	10.5	7.5	26000	21.0 E6	R73MD1220--0--
3300pF	6.0	12.0	10.5	7.5	26000	21.0 E6	R73MD1330--0--
2200pF	4.0	9.0	13.0	10.0	12000	9.6 E6	R73MF 1220--0--
3300pF	5.0	11.0	13.0	10.0	12000	9.6 E6	R73MF 1330--0--
4700pF	5.0	11.0	13.0	10.0	12000	9.6 E6	R73MF 1470--0--
6800pF	6.0	12.0	13.0	10.0	12000	9.6 E6	R73MF 1680--0--
0.010μF	5.0	11.0	18.0	15.0	6000	4.8 E6	R73MI 2100--0--
0.015μF	6.0	12.0	18.0	15.0	6000	4.8 E6	R73MI 2150--0--
0.022μF	7.5	13.5	18.0	15.0	6000	4.8 E6	R73MI 2220--0--
0.033μF	8.5	14.5	18.0	15.0	6000	4.8 E6	R73MI 2330--0--
0.047μF	10.0	16.0	18.0	15.0	6000	4.8 E6	R73MI 2470--0--

Mechanical version and packaging (Table 1)

Internal use

Tolerance: J (± 5%); K (± 10%)

Mechanical version and packaging (Table 1)

Internal use

Tolerance: J (± 5%); K (± 10%)

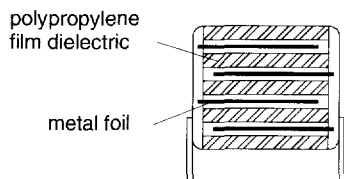
All dimensions are in mm.

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.

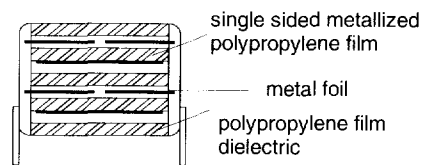
*Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 109).

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

PRODUCT CODE: R73



**1 section
(630Vdc/200Vac)**



**2 sections
(630Vdc/300Vac)**

Rated Cap.	630Vdc/200Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
100pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0100--0--
150pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0150--0--
220pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0220--0--
330pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0330--0--
470pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0470--0--
680pF	4.0	9.0	10.5	7.5	30000	38 E6	R73PD0680--0--
1000pF	5.0	11.0	10.5	7.5	30000	38 E6	R73PD1100--0--
1500pF	6.0	12.0	10.5	7.5	30000	38 E6	R73PD1150--0--
2200pF	6.0	12.0	10.5	7.5	30000	38 E6	R73PD1220--0--
100pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0100--0--
150pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0150--0--
220pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0220--0--
330pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0330--0--
470pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0470--0--
680pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 0680--0--
1000pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 1100--0--
1500pF	4.0	9.0	13.0	10.0	15000	19 E6	R73PF 1150--0--
2200pF	5.0	11.0	13.0	10.0	15000	19 E6	R73PF 1220--0--
3300pF	6.0	12.0	13.0	10.0	15000	19 E6	R73PF 1330--0--
4700pF	6.0	12.0	13.0	10.0	15000	19 E6	R73PF 1470--0--

Mechanical version and packaging (Table 1)

Internal use

Tolerance: J (± 5%); K (± 10%)

Rated Cap.	630Vdc / 300Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.010μF	5.0	11.0	18.0	15.0	11000	14.0 E6	R73PI 2100--0--
0.012μF	5.0	11.0	18.0	15.0	11000	14.0 E6	R73PI 2120--0--
0.015μF	6.0	12.0	18.0	15.0	11000	14.0 E6	R73PI 2150--0--
0.018μF	6.0	12.0	18.0	15.0	11000	14.0 E6	R73PI 2180--0--
0.022μF	7.5	13.5	18.0	15.0	11000	14.0 E6	R73PI 2220--0--
0.027μF	7.5	13.5	18.0	15.0	11000	14.0 E6	R73PI 2270--0--
0.033μF	8.5	14.5	18.0	15.0	11000	14.0 E6	R73PI 2330--0--
0.039μF	10.0	16.0	18.0	15.0	11000	14.0 E6	R73PI 2390--0--
0.047μF	10.0	16.0	18.0	15.0	11000	14.0 E6	R73PI 2470--0--
0.039μF	6.0	15.0	26.5	22.5	11000	14.0 E6	R73PN 2390--0--
0.047μF	7.0	16.0	26.5	22.5	11000	14.0 E6	R73PN 2470--0--
0.056μF	7.0	16.0	26.5	22.5	11000	14.0 E6	R73PN 2560--0--
0.068μF	8.5	17.0	26.5	22.5	11000	14.0 E6	R73PN 2680--0--
0.082μF	10.0	18.5	26.5	22.5	11000	14.0 E6	R73PN 2820--0--
0.10μF	10.0	18.5	26.5	22.5	11000	14.0 E6	R73PN 3100--0--
0.10μF	9.0	17.0	32.0	27.5	11000	14.0 E6	R73PR 3100--0--
0.12μF	9.0	17.0	32.0	27.5	11000	14.0 E6	R73PR 3120--0--
0.15μF	11.0	20.0	32.0	27.5	11000	14.0 E6	R73PR 3150--0--
0.18μF	13.0	22.0	32.0	27.5	11000	14.0 E6	R73PR 3180--0--
*0.22μF	13.0	22.0	32.0	27.5	11000	14.0 E6	R73PR 3220--0--
*0.27μF	15.0	24.5	32.0	27.5	11000	14.0 E6	R73PR 3270--0--
*0.33μF	14.0	28.0	32.0	27.5	11000	14.0 E6	R73PR 3330--0--
*0.39μF	18.0	33.0	32.0	27.5	11000	14.0 E6	R73PR 3390--0--
*0.47μF	18.0	33.0	32.0	27.5	11000	14.0 E6	R73PR 3470--0--
*0.56μF	22.0	37.0	32.0	27.5	11000	14.0 E6	R73PR 3560--0--
*0.68μF	22.0	37.0	32.0	27.5	11000	14.0 E6	R73PR 3680--0--
0.82μF	19.0	32.0	41.5	37.5	3000	3.8 E6	R73PW3820--0--
1.0μF	20.0	40.0	41.5	37.5	3000	3.8 E6	R73PW4100--0--
1.2μF	20.0	40.0	41.5	37.5	3000	3.8 E6	R73PW4120--0--
1.5μF	24.0	44.0	41.5	37.5	3000	3.8 E6	R73PW4150--0--

Mechanical version and packaging (Table 1)

Internal use

Tolerance: J (± 5%); K (± 10%)

All dimensions are in mm.

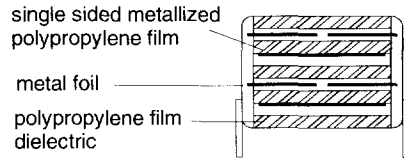
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.

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

* This value is available in pitch 37.5 mm upon request.

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

PRODUCT CODE: R73



**2 sections
(1000-1250Vdc)**

Rated Cap.	1000Vdc / 400Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
3300pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1330--3--
3900pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1390--3--
4700pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1470--3--
5600pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1560--3--
6800pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1680--3--
8200pF	5.0	11.0	18.0	15.0	28000	56 E6	R73QI 1820--3--
0.010μF	6.0	12.0	18.0	15.0	28000	56 E6	R73QI 2100--3--
0.012μF	6.0	12.0	18.0	15.0	28000	56 E6	R73QI 2120--3--
0.015μF	7.5	13.5	18.0	15.0	28000	56 E6	R73QI 2150--3--
0.018μF	8.5	14.5	18.0	15.0	28000	56 E6	R73QI 2180--3--
0.022μF	8.5	14.5	18.0	15.0	28000	56 E6	R73QI 2220--3--
0.027μF	10.0	16.0	18.0	15.0	28000	56 E6	R73QI 2270--3--
0.015μF	6.0	15.0	26.5	22.5	11000	22 E6	R73QN 2150--3--
0.018μF	6.0	15.0	26.5	22.5	11000	22 E6	R73QN 2180--3--
0.022μF	6.0	15.0	26.5	22.5	11000	22 E6	R73QN 2220--3--
0.027μF	7.0	16.0	26.5	22.5	11000	22 E6	R73QN 2270--3--
0.033μF	7.0	16.0	26.5	22.5	11000	22 E6	R73QN 2330--3--
0.039μF	8.5	17.0	26.5	22.5	11000	22 E6	R73QN 2390--3--
0.047μF	8.5	17.0	26.5	22.5	11000	22 E6	R73QN 2470--3--
0.056μF	10.0	18.5	26.5	22.5	11000	22 E6	R73QN 2560--3--
0.068μF	11.0	20.0	26.5	22.5	11000	22 E6	R73QN 2680--3--
0.047μF	9.0	17.0	32.0	27.5	11000	22 E6	R73QR 2470--3--
0.056μF	9.0	17.0	32.0	27.5	11000	22 E6	R73QR 2560--3--
0.068μF	9.0	17.0	32.0	27.5	11000	22 E6	R73QR 2680--3--
0.082μF	10.0	20.0	32.0	27.5	11000	22 E6	R73QR 2820--3--
0.10μF	11.0	20.0	32.0	27.5	11000	22 E6	R73QR 3100--3--
*0.12μF	13.0	22.0	32.0	27.5	11000	22 E6	R73QR 3120--3--
*0.15μF	13.0	22.0	32.0	27.5	11000	22 E6	R73QR 3150--3--
*0.18μF	15.0	24.5	32.0	27.5	11000	22 E6	R73QR 3180--3--
*0.22μF	14.0	28.0	32.0	27.5	11000	22 E6	R73QR 3220--3--
*0.27μF	18.0	33.0	32.0	27.5	11000	22 E6	R73QR 3270--3--
*0.33μF	18.0	33.0	32.0	27.5	11000	22 E6	R73QR 3330--3--
0.39μF	16.0	28.5	41.5	37.5	4500	9 E6	R73QW3390--3--
0.47μF	19.0	32.0	41.5	37.5	4500	9 E6	R73QW3470--3--
0.56μF	19.0	32.0	41.5	37.5	4500	9 E6	R73QW3560--3--
0.68μF	20.0	40.0	41.5	37.5	4500	9 E6	R73QW3680--3--
0.82μF	20.0	40.0	41.5	37.5	4500	9 E6	R73QW3820--3--
1.0μF	24.0	44.0	41.5	37.5	4500	9 E6	R73QW4100--3--

Rated Cap.	1250Vdc / 450Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
2200pF	5.0	11.0	18.0	15.0	30000	75 E6	R73RI 1220--0--
2700pF	5.0	11.0	18.0	15.0	30000	75 E6	R73RI 1270--0--
3300pF	6.0	12.0	18.0	15.0	30000	75 E6	R73RI 1330--0--
3900pF	6.0	12.0	18.0	15.0	30000	75 E6	R73RI 1390--0--
4700pF	7.5	13.5	18.0	15.0	30000	75 E6	R73RI 1470--0--
5600pF	7.5	13.5	18.0	15.0	30000	75 E6	R73RI 1560--0--
6800pF	8.5	14.5	18.0	15.0	30000	75 E6	R73RI 1680--0--
8200pF	10.0	16.0	18.0	15.0	30000	75 E6	R73RI 1820--0--
8200pF	6.0	15.0	26.5	22.5	11000	27 E6	R73RN 1820--0--
0.010μF	6.0	15.0	26.5	22.5	11000	27 E6	R73RN 2100--0--
0.012μF	6.0	15.0	26.5	22.5	11000	27 E6	R73RN 2120--0--
0.015μF	7.0	16.0	26.5	22.5	11000	27 E6	R73RN 2150--0--
0.018μF	7.0	16.0	26.5	22.5	11000	27 E6	R73RN 2180--0--
0.022μF	8.5	17.0	26.5	22.5	11000	27 E6	R73RN 2220--0--
0.027μF	10.0	18.5	26.5	22.5	11000	27 E6	R73RN 2270--0--
0.039μF	10.0	18.5	26.5	22.5	11000	27 E6	R73RN 2330--0--
0.039μF	9.0	17.0	32.0	27.5	11000	27 E6	R73RR 2390--0--
0.047μF	11.0	20.0	32.0	27.5	11000	27 E6	R73RR 2470--0--
0.056μF	11.0	20.0	32.0	27.5	11000	27 E6	R73RR 2560--0--
0.068μF	13.0	22.0	32.0	27.5	11000	27 E6	R73RR 2680--0--
*0.082μF	15.0	24.5	32.0	27.5	11000	27 E6	R73RR 2820--0--
*0.10μF	15.0	24.5	32.0	27.5	11000	27 E6	R73RR 3100--0--
*0.12μF	18.0	33.0	32.0	27.5	11000	27 E6	R73RR 3120--0--
*0.15μF	18.0	33.0	32.0	27.5	11000	27 E6	R73RR 3150--0--
*0.18μF	18.0	33.0	32.0	27.5	11000	27 E6	R73RR 3180--0--
*0.22μF	22.0	37.0	32.0	27.5	11000	27 E6	R73RR 3220--0--
0.27μF	16.0	28.5	41.5	37.5	5500	14 E6	R73RW3270--0--
0.33μF	19.0	32.0	41.5	37.5	5500	14 E6	R73RW3330--0--
0.39μF	20.0	40.0	41.5	37.5	5500	14 E6	R73RW3390--0--
0.47μF	20.0	40.0	41.5	37.5	5500	14 E6	R73RW3470--0--
0.56μF	20.0	40.0	41.5	37.5	5500	14 E6	R73RW3560--0--
0.68μF	24.0	44.0	41.5	37.5	5500	14 E6	R73RW3680--0--

Mechanical version and packaging (Table 1)

Internal use

Tolerance: H (± 2.5%); J (± 5%); K (± 10%)

Mechanical version and packaging (Table 1)

Internal use

Tolerance: H (± 2.5%); J (± 5%); K (± 10%)

All dimensions are in mm.

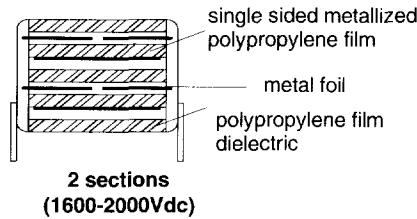
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.

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

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

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

PRODUCT CODE: R73



Rated Cap.	1600Vdc / 450Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
1000pF	5.0	11.0	18.0	15.0	34000	109 E6	R73TI 1100--0--
1200pF	5.0	11.0	18.0	15.0	34000	109 E6	R73TI 1120--0--
1500pF	5.0	11.0	18.0	15.0	34000	109 E6	R73TI 1150--0--
1800pF	5.0	11.0	18.0	15.0	34000	109 E6	R73TI 1180--0--
2200pF	6.0	12.0	18.0	15.0	34000	109 E6	R73TI 1220--0--
2700pF	6.0	12.0	18.0	15.0	34000	109 E6	R73TI 1270--0--
3300pF	7.5	13.5	18.0	15.0	34000	109 E6	R73TI 1330--0--
3900pF	7.5	13.5	18.0	15.0	34000	109 E6	R73TI 1390--0--
4700pF	8.5	14.5	18.0	15.0	34000	109 E6	R73TI 1470--0--
5600pF	10.0	16.0	18.0	15.0	34000	109 E6	R73TI 1560--0--
6800pF	10.0	16.0	18.0	15.0	34000	109 E6	R73TI 1680--0--
5600pF	6.0	15.0	26.5	22.5	11000	35 E6	R73TN 1560--0--
6800pF	6.0	15.0	26.5	22.5	11000	35 E6	R73TN 1680--0--
8200pF	6.0	15.0	26.5	22.5	11000	35 E6	R73TN 1820--0--
0.010μF	6.0	15.0	26.5	22.5	11000	35 E6	R73TN 2100--0--
0.012μF	7.0	16.0	26.5	22.5	11000	35 E6	R73TN 2120--0--
0.015μF	8.5	17.0	26.5	22.5	11000	35 E6	R73TN 2150--0--
0.018μF	8.5	17.0	26.5	22.5	11000	35 E6	R73TN 2180--0--
0.022μF	10.0	18.5	26.5	22.5	11000	35 E6	R73TN 2220--0--
0.027μF	9.0	17.0	32.0	27.5	11000	35 E6	R73TR 2270--0--
*0.033μF	11.0	20.0	32.0	27.5	11000	35 E6	R73TR 2330--0--
*0.039μF	11.0	20.0	32.0	27.5	11000	35 E6	R73TR 2390--0--
*0.047μF	13.0	22.0	32.0	27.5	11000	35 E6	R73TR 2470--0--
*0.056μF	13.0	22.0	32.0	27.5	11000	35 E6	R73TR 2560--0--
*0.068μF	15.0	24.5	32.0	27.5	11000	35 E6	R73TR 2680--0--
*0.082μF	14.0	28.0	32.0	27.5	11000	35 E6	R73TR 2820--0--
*0.10μF	18.0	33.0	32.0	27.5	11000	35 E6	R73TR 3100--0--
*0.12μF	18.0	33.0	32.0	27.5	11000	35 E6	R73TR 3120--0--
*0.15μF	22.0	37.0	32.0	27.5	11000	35 E6	R73TR 3150--0--
0.18μF	16.0	28.5	41.5	37.5	6500	21 E6	R73TW3180--0--
0.22μF	19.0	32.0	41.5	37.5	6500	21 E6	R73TW3220--0--
0.27μF	20.0	40.0	41.5	37.5	6500	21 E6	R73TW3270--0--
0.33μF	20.0	40.0	41.5	37.5	6500	21 E6	R73TW3330--0--
0.39μF	24.0	44.0	41.5	37.5	6500	21 E6	R73TW3390--0--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (± 2.5%); J (± 5%); K (± 10%)

Rated Cap.	2000Vdc / 500Vac				Max dv/dt (V/μs)	K ₀ (V ² /μs)	Part Number
	B	H	L	p			
100pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0100--0--
150pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0150--0--
220pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0220--0--
330pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0330--0--
470pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0470--0--
680pF	5.0	11.0	18.0	15.0	54000	216 E6	R73UI 0680--0--
1000pF	6.0	12.0	18.0	15.0	54000	216 E6	R73UI 1100--0--
1200pF	6.0	12.0	18.0	15.0	54000	216 E6	R73UI 1120--0--
1500pF	7.5	13.5	18.0	15.0	54000	216 E6	R73UI 1150--0--
1800pF	7.5	13.5	18.0	15.0	54000	216 E6	R73UI 1180--0--
2200pF	8.5	14.5	18.0	15.0	54000	216 E6	R73UI 1220--0--
2700pF	10.0	16.0	18.0	15.0	54000	216 E6	R73UI 1270--0--
2700pF	6.0	15.0	26.5	22.5	11000	44 E6	R73UI 1270--0--
3300pF	6.0	15.0	26.5	22.5	11000	44 E6	R73UN 1330--0--
3900pF	6.0	15.0	26.5	22.5	11000	44 E6	R73UN 1390--0--
4700pF	7.0	16.0	26.5	22.5	11000	44 E6	R73UN 1470--0--
5600pF	7.0	16.0	26.5	22.5	11000	44 E6	R73UN 1560--0--
6800pF	8.5	17.0	26.5	22.5	11000	44 E6	R73UN 1680--0--
8200pF	8.5	17.0	26.5	22.5	11000	44 E6	R73UN 1820--0--
0.010μF	10.0	18.5	26.5	22.5	11000	44 E6	R73UN 2100--0--
0.012μF	11.0	20.0	26.5	22.5	11000	44 E6	R73UN 2120--0--
0.012μF	9.0	17.0	32.0	27.5	11000	44 E6	R73UR 2120--0--
0.015μF	11.0	20.0	32.0	27.5	11000	44 E6	R73UR 2150--0--
*0.018μF	13.0	22.0	32.0	27.5	11000	44 E6	R73UR 2180--0--
*0.022μF	13.0	22.0	32.0	27.5	11000	44 E6	R73UR 2220--0--
*0.027μF	15.0	24.5	32.0	27.5	11000	44 E6	R73UR 2270--0--
*0.033μF	18.0	33.0	32.0	27.5	11000	44 E6	R73UR 2330--0--
*0.039μF	18.0	33.0	32.0	27.5	11000	44 E6	R73UR 2390--0--
*0.047μF	18.0	33.0	32.0	27.5	11000	44 E6	R73UR 2470--0--
*0.056μF	22.0	37.0	32.0	27.5	11000	44 E6	R73UR 2560--0--
*0.068μF	22.0	37.0	32.0	27.5	11000	44 E6	R73UR 2680--0--
0.082μF	19.0	32.0	41.5	37.5	9000	36 E6	R73UW2820--0--
0.10μF	20.0	40.0	41.5	37.5	9000	36 E6	R73UW3100--0--
0.12μF	20.0	40.0	41.5	37.5	9000	36 E6	R73UW3120--0--
0.15μF	24.0	44.0	41.5	37.5	9000	36 E6	R73UW3150--0--

Mechanical version and packaging (Table 1)
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.

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

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R):

100 Vdc - 160 Vdc - 250 Vdc - 400 Vdc - 630 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 has to be applied.

Capacitance range

100pF 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)	7.5	10	15	22.5	27.5	37.5
L (nH) ≈	8	9	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

≥ 1 × 10⁵ MΩ for C ≤ 0.33µF (5 × 10⁵ MΩ)*
≥ 30000 s for C > 0.33µF (150000 s)*
*Typical value

Test voltage between terminations:

2.5 × V_R for 1 section
2.0 × V_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): ≤ 5 × 10⁻⁴ at 1KHz
Insulation resistance: ≥ 50% of initial limit.

Endurance:

Test conditions

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

Performance

Capacitance change |ΔC/C|: ≤ 2%
DF change (Δtgδ): ≤ 5 × 10⁻⁴ 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): ≤ 5 × 10⁻⁴ at 1KHz
Insulation resistance: ≥ initial limit.

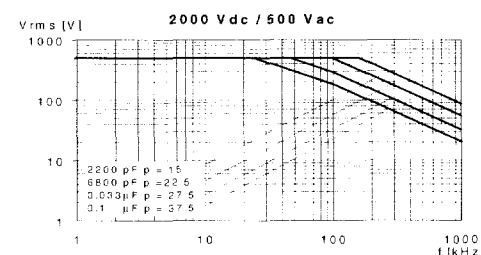
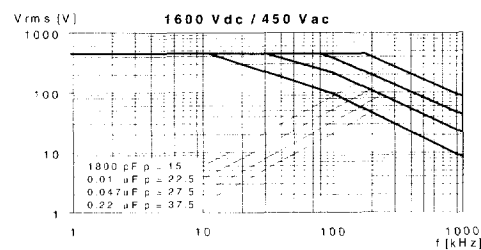
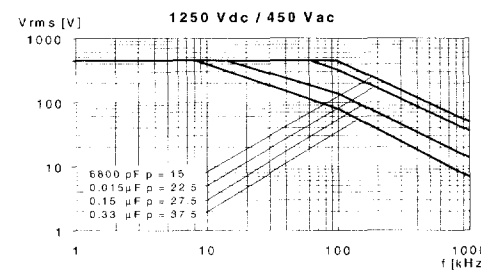
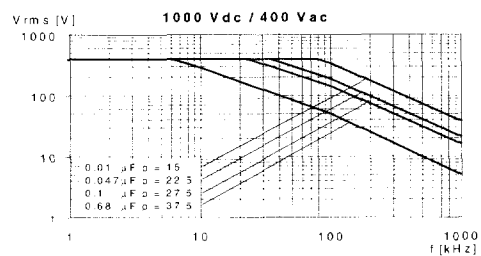
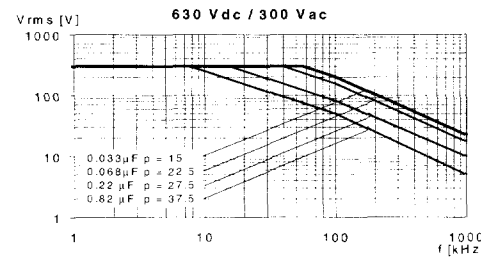
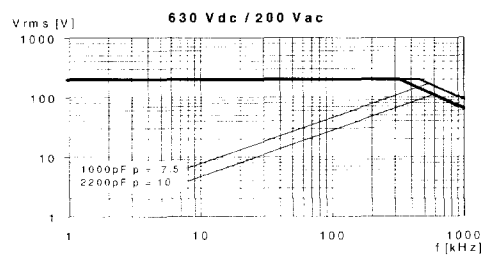
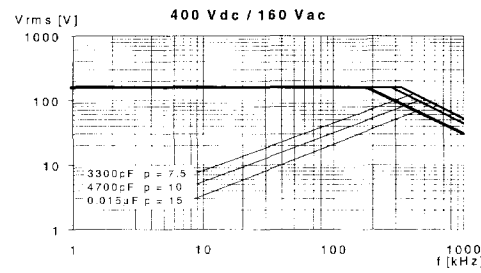
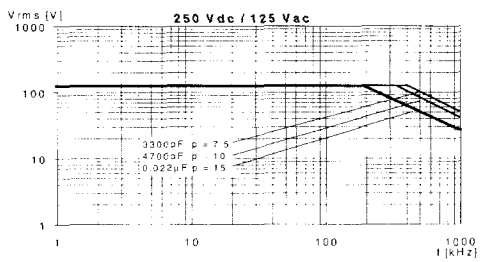
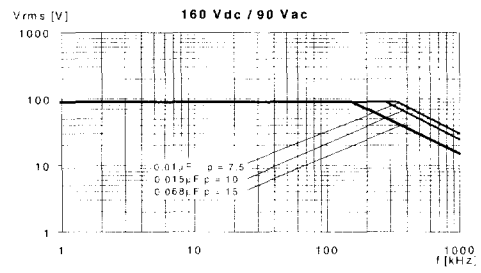
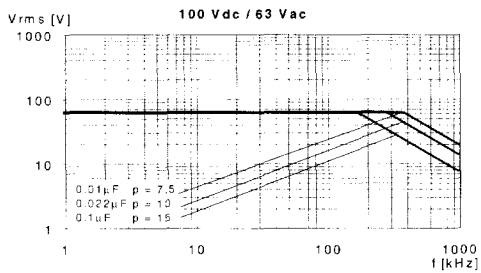
Long term stability (after two years):

Storage: standard environmental conditions (see page 11).

Performance

Capacitance change |ΔC/C|: ≤ 0.5%

MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / $T_h \leq 40^\circ\text{C}$)



Note: p (pitch) in mm.