

Ød±0.05	p=7.5	p=10	15≤p≤27.5	p = 37.5
	0.5	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:
G = 160V I = 250V M = 400V
P = 630V Q = 1000V R = 1250V
T = 1600V U = 2000V
- Digit 5 Pitch:
D = 7.5 mm; F = 10 mm; I = 15 mm;
N = 22.5 mm; 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 (0 to 9).
- Digit 13 Internal use.
- Digit 14 Capacitance tolerance:
J=5%; K=10%; M=20%

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

Typical applications: deflection circuits in TV-sets and monitors (S-correction), resonant capacitor in electronic ballast and compact lamp, power factor correction and coupling capacitor in SMPS, timing and oscillator circuits.

PRODUCT CODE: R75 (Digit 12: 0 to 9)

Pitch (mm)	Box thickness (mm)	Maximum dimensions (mm)		
		B max	H max	L max
7.5	All	B +0.1	H +0.1	L +0.2
10.0	All	B +0.2	H +0.1	L +0.2
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:** aluminium layer deposited by evaporation under vacuum.
- Winding:** non-inductive type.
- Leads:** for Ø ≥ 0,6mm : tinned wire
for Ø = 0,5mm : tinned wire, low thermal conductivity
- Protection:** plastic case, thermosetting resin filled.
Box material is solvent resistant and flame retardant according to UL94 V0.
- Marking:** manufacturer's logo, series (R75), dielectric code (MKP), capacitance, tolerance, D.C. rated voltage, manufacturing date code.
- Climatic category:** 55/105/56 IEC 60068-1
- Operating temperature range:** -55 to +105°C
- Related documents:** IEC 60384-16

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

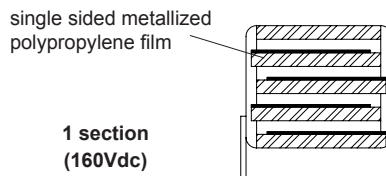
Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL Ø 355mm		6.35	1	7.5	CK
REEL Ø 355mm		12.70	2	10.0/15.0	GY
REEL Ø 500mm		12.70	2	10.0/15.0	CK
REEL Ø 500mm		19.05	3	22.5/27.5	CK
Loose, short leads	4 ⁺²				AA
Loose, long leads (p<10mm)	17 ^{+1/2}				Z3
Loose, long leads (p10mm)	18 ^{+1/1}				JM
Loose, long leads (p≥15mm)	30 ⁺⁵ 25 ^{+2/-1}				40 50

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

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)

Rated Cap.	160Vdc / 70Vac Reduced sizes				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.10 μF	4.0	9.0	10.0	7.5	100	32 E3	R75GD 3100--B--
0.12 μF	5.0	10.5	10.0	7.5	100	32 E3	R75GD 3120--B--
0.15 μF	5.0	10.5	10.0	7.5	100	32 E3	R75GD 3150--B--
0.18 μF	6.0	12.0	10.5	7.5	100	32 E3	R75GD 3180--A--
0.22 μF	6.0	12.0	10.5	7.5	100	32 E3	R75GD 3220--A--
0.12 μF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3120--A--
0.15 μF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3150--A--
0.18 μF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3180--A--
0.22 μF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3220--A--
0.27 μF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3270--A--
0.33 μF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3330--A--



The derating curves of previous table are not included this catalogue, available upon request.

Rated Cap.	160Vdc / 90Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.068 μF	4.0	9.0	10.0	7.5	300	74 E3	R75GD2680--4--
0.082 μF	4.0	9.0	10.0	7.5	300	74 E3	R75GD2820--4--
0.10 μF	5.0	10.5	10.0	7.5	300	74 E3	R75GD3100--4--
0.12 μF	5.0	10.5	10.0	7.5	300	74 E3	R75GD3120--4--
0.15 μF	6.0	12.0	10.5	7.5	300	74 E3	R75GD3150--0--
0.18 μF	6.0	12.0	10.5	7.5	300	74 E3	R75GD3180--3--
0.082 μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 2820--0--
0.10 μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 3100--3--
0.12 μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3120--0--
0.15 μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3150--0--
0.18 μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3180--0--
0.22 μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3220--3--
0.18 μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3180--0--
0.22 μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3220--0--
0.27 μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3270--0--
0.33 μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3330--0--
0.39 μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3390--0--
0.47 μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3470--0--
0.47 μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3470--6--
0.56 μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3560--0--
0.56 μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3560--6--
0.68 μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3680--0--
0.68 μF	13.0	12.0	18.0	15.0	100	32 E3	R75GI 3680--6--
0.82 μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 3820--0--
1.0 μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 4100--0--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

Rated Cap.	160Vdc / 90Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.82 μF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 3820--0--
1.0 μF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 4100--0--
1.2 μF	8.5	17.0	26.5	22.5	60	19 E3	R75GN 4120--0--
1.5 μF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4150--0--
1.8 μF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4180--0--
1.5 μF	9.0	17.0	32.0	27.5	50	16 E3	R75GR 4150--0--
1.8 μF	9.0	17.0	32.0	27.5	50	16 E3	R75GR 4180--0--
2.2 μF	11.0	20.0	32.0	27.5	50	16 E6	R75GR 4220--3--
2.7 μF	11.0	20.0	32.0	27.5	50	16 E3	R75GR 4270--0--
3.3 μF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4330--0--
3.9 μF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4390--0--
4.7 μF	13.0	25.0	32.0	27.5	50	16 E3	R75GR 4470--3--
5.6 μF	14.0	28.0	32.0	27.5	50	16 E3	R75GR 4560--0--
6.8 μF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4680--0--
8.2 μF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4820--0--
10.0 μF	22.0	37.0	32.0	27.5	50	16 E3	R75GR 5100--0--
12.0 μF	22.0	37.0	32.0	27.5	50	16 E3	R75GR 5120--0--
3.3 μF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4330--0--
3.9 μF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4390--0--
4.7 μF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4470--0--
5.6 μF	13.0	24.0	41.5	37.5	35	11 E3	R75GW4560--0--
6.8 μF	16.0	28.5	41.5	37.5	35	11 E3	R75GW4680--0--
8.2 μF	16.0	28.5	41.5	37.5	35	11 E3	R75GW4820--0--
10.0 μF	19.0	32.0	41.5	37.5	35	11 E3	R75GW5100--0--
12.0 μF	19.0	32.0	41.5	37.5	35	11 E3	R75GW5120--0--
15.0 μF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5150--0--
18.0 μF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5180--0--
22.0 μF	24.0	44.0	41.5	37.5	35	11 E3	R75GW5220--0--
27.0 μF	30.0	45.0	41.5	37.5	35	11 E3	R75GW5270--0--
33.0 μF	30.0	45.0	41.5	37.5	35	11 E3	R75GW5330--0--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

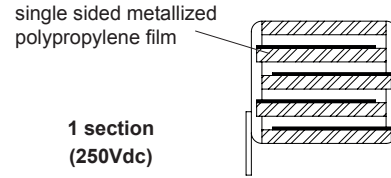
All dimensions are mm.

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.

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)

Rated Cap.	250Vdc / 140Vac Reduced sizes				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.068 μF	4.0	9.0	10.0	7.5	180	90 E3	R75ID 2680--B--
0.082 μF	4.0	9.0	10.0	7.5	180	90 E3	R75ID 2820--B--
0.10 μF	5.0	10.5	10.0	7.5	180	90 E3	R75ID 3100--B--
0.12 μF	5.0	10.5	10.0	7.5	180	90 E3	R75ID 3120--B--
0.15 μF	6.0	12.0	10.5	7.5	180	90 E3	R75ID 3150--A--
0.18 μF	6.0	12.0	10.5	7.5	180	90 E3	R75ID 3180--A--
0.082 μF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 2820--A--
0.10 μF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 3100--A--
0.12 μF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3120--A--
0.15 μF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3150--A--
0.18 μF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3180--A--
0.22 μF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3220--A--



The derating curves of previous table are not included this catalogue, available upon request.

Rated Cap.	250Vdc / 160Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.027 μF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2270--4--
0.033 μF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2330--4--
0.039 μF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2390--4--
0.047 μF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2470--4--
0.056 μF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2560--4--
0.068 μF	5.0	10.5	10.0	7.5	650	150 E3	R75ID2680--4--
0.082 μF	5.0	10.5	10.0	7.5	650	150 E3	R75ID2820--4--
0.10 μF	6.0	12.0	10.5	7.5	650	150 E3	R75ID3100--3--
0.12 μF	6.0	12.0	10.5	7.5	650	150 E3	R75ID3120--3--
0.033 μF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2330--0--
0.039 μF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2390--0--
0.047 μF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2470--3--
0.056 μF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2560--3--
0.068 μF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2680--3--
0.082 μF	5.0	11.0	13.0	10.0	550	140 E3	R75IF 2820--3--
0.10 μF	5.0	11.0	13.0	10.0	550	140 E3	R75IF 3100--3--
0.12 μF	6.0	12.0	13.0	10.0	550	140 E3	R75IF 3120--3--
0.15 μF	6.0	12.0	13.0	10.0	550	140 E3	R75IF 3150--3--
0.12 μF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3120--3--
0.15 μF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3150--3--
0.18 μF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3180--4--
0.22 μF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3220--4--
0.27 μF	6.0	12.0	18.0	15.0	300	100 E3	R75II 3270--4--
0.33 μF	6.0	12.0	18.0	15.0	300	100 E3	R75II 3330--4--
0.39 μF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3390--4--
0.39 μF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3390--7--
0.47 μF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3470--4--
0.47 μF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3470--8--
0.56 μF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3560--4--
0.56 μF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3560--8--
0.68 μF	8.5	14.5	18.0	15.0	300	100 E3	R75II 3680--4--
0.68 μF	13.0	12.0	18.0	15.0	300	100 E3	R75II 3680--8--
0.82 μF	10.0	16.0	18.0	15.0	300	100 E3	R75II 3820--4--
0.82 μF	13.0	12.0	18.0	15.0	300	100 E3	R75II 3820--8--
1.0 μF	10.0	16.0	18.0	15.0	300	100 E3	R75II 4100--4--
1.2 μF	11.0	19.0	18.0	15.0	300	100 E3	R75II 4120--4--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

All dimensions are mm.

Rated Cap.	250Vdc / 160Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.39 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3390--3--
0.47 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3470--3--
0.56 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3560--4--
0.68 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3680--4--
0.82 μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 3820--4--
1.0 μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 4100--4--
1.2 μF	8.5	17.0	26.5	22.5	125	63 E3	R75IN 4120--4--
1.5 μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4150--4--
1.8 μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4180--4--
2.2 μF	11.0	20.0	26.5	22.5	125	63 E3	R75IN 4220--4--
2.7 μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4270--4--
3.3 μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4330--4--
1.0 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4100--3--
1.2 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4120--3--
1.5 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4150--4--
1.8 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4180--4--
2.2 μF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4220--5--
2.7 μF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4270--4--
3.3 μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4330--4--
3.9 μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4390--4--
4.7 μF	13.0	25.0	32.0	27.5	100	50 E3	R75IR 4470--5--
5.6 μF	14.0	28.0	32.0	27.5	100	50 E3	R75IR 4560--4--
6.8 μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4680--4--
8.2 μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4820--4--
10.0 μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5100--4--
12.0 μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5120--4--
3.3 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4330--4--
3.9 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4390--4--
4.7 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4470--4--
5.6 μF	13.0	24.0	41.5	37.5	40	20 E3	R75IW4560--4--
6.8 μF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4680--4--
8.2 μF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4820--4--
10.0 μF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5100--4--
12.0 μF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5120--4--
15.0 μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5150--4--
18.0 μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5180--4--
22.0 μF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5220--4--
27.0 μF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5270--4--
33.0 μF	30.0	45.0	41.5	37.5	40	20 E3	R75IW5330--4--

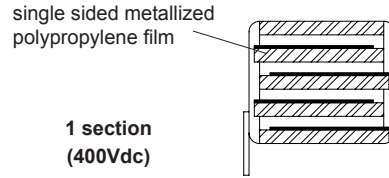
Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

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.

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)

Rated Cap.	400Vdc / 200Vac Reduced sizes				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.027 μF	4.0	9.0	10.0	7.5	390	312 E3	R75MD2270--B--
0.033 μF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2330--B--
0.039 μF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2390--B--
0.047 μF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2470--B--
0.056 μF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2560--A--
0.068 μF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2680--A--



The derating curves of previous table are not included this catalogue, available upon request.

Rated Cap.	400Vdc / 220Vac* Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.010 μF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2100--4--
0.012 μF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2120--4--
0.015 μF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2150--4--
0.018 μF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2180--4--
0.022 μF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2220--4--
0.027 μF	5.0	10.5	10.0	7.5	1500	360 E3	R75MD2270--4--
0.033 μF	5.0	10.5	10.0	7.5	1500	360 E3	R75MD2330--4--
0.039 μF	6.0	12.0	10.5	7.5	1500	360 E3	R75MD2390--3--
0.047 μF	6.0	12.0	10.5	7.5	1500	360 E3	R75MD2470--3--
0.015 μF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2150--0--
0.018 μF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2180--0--
0.022 μF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2220--3--
0.027 μF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2270--3--
0.033 μF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2330--3--
0.039 μF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2390--3--
0.047 μF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2470--3--
0.056 μF	6.0	12.0	13.0	10.0	1300	336 E3	R75MF 2560--3--
0.068 μF	6.0	12.0	13.0	10.0	1300	336 E3	R75MF 2680--3--
0.068 μF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 2680--3--
0.082 μF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 2820--3--
0.10 μF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 3100--3--
0.12 μF	6.0	12.0	18.0	15.0	900	240 E3	R75MI 3120--3--
0.15 μF	6.0	12.0	18.0	15.0	900	240 E3	R75MI 3150--3--
0.18 μF	7.5	13.5	18.0	15.0	900	240 E3	R75MI 3180--3--
0.22 μF	7.5	13.5	18.0	15.0	900	240 E3	R75MI 3220--3--
0.22 μF	9.0	12.5	18.0	15.0	900	240 E3	R75MI 3220--7--
0.27 μF	8.5	14.5	18.0	15.0	900	240 E3	R75MI 3270--3--
0.27 μF	9.0	12.5	18.0	15.0	900	240 E3	R75MI 3270--7--
0.33 μF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3330--3--
0.33 μF	13.0	12.0	18.0	15.0	900	240 E3	R75MI 3330--7--
0.39 μF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3390--3--
0.47 μF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3470--3--
0.56 μF	11.0	19.0	18.0	15.0	900	240 E3	R75MI 3560--3--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

Rated Cap.	400Vdc / 220Vac* Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.18 μF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3180--3--
0.22 μF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3220--3--
0.27 μF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3270--3--
0.33 μF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3330--3--
0.39 μF	7.0	16.0	26.5	22.5	300	144 E3	R75MN 3390--3--
0.47 μF	7.0	16.0	26.5	22.5	300	144 E3	R75MN 3470--3--
0.56 μF	8.5	17.0	26.5	22.5	300	144 E3	R75MN 3560--3--
0.68 μF	10.0	18.5	26.5	22.5	300	144 E3	R75MN 3680--3--
0.82 μF	10.0	18.5	26.5	22.5	300	144 E3	R75MN 3820--3--
1.0 μF	11.0	20.0	26.5	22.5	300	144 E3	R75MN 4100--3--
1.2 μF	13.0	22.0	26.5	22.5	300	144 E3	R75MN 4120--3--
1.5 μF	13.0	22.0	26.5	22.5	300	144 E3	R75MN 4150--3--
0.56 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3560--3--
0.68 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3680--3--
0.82 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3820--3--
1.0 μF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4100--4--
1.2 μF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4120--3--
1.5 μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4150--3--
1.8 μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4180--3--
2.2 μF	13.0	25.0	32.0	27.5	130	104 E3	R75MR 4220--4--
2.7 μF	14.0	28.0	32.0	27.5	130	104 E3	R75MR 4270--3--
3.3 μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4330--3--
3.9 μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4390--3--
4.7 μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4470--3--
5.6 μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4560--3--
1.2 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4120--3--
1.5 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4150--3--
1.8 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4180--3--
2.2 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4220--3--
2.7 μF	13.0	24.0	41.5	37.5	70	56 E3	R75MW4270--3--
3.3 μF	16.0	28.5	41.5	37.5	70	56 E3	R75MW4330--3--
3.9 μF	16.0	28.5	41.5	37.5	70	56 E3	R75MW4390--3--
4.7 μF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4470--3--
5.6 μF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4560--3--
6.8 μF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4680--3--
8.2 μF	20.0	40.0	41.5	37.5	70	56 E3	R75MW4820--3--
10.0 μF	20.0	40.0	41.5	37.5	70	56 E3	R75MW5100--4--
12.0 μF	24.0	44.0	41.5	37.5	70	56 E3	R75MW5120--3--
15.0 μF	30.0	45.0	41.5	37.5	70	56 E3	R75MW5150--3--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

All dimensions are mm.

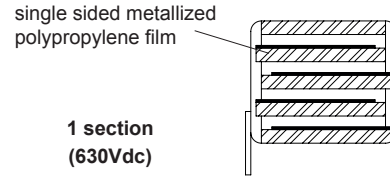
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K₀ depends on the voltage wave-form and in any 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 151)

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)

Rated Cap.	630Vdc / 220Vac* Reduced sizes				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.010 μF	4.0	9.0	10.0	7.5	600	760 E3	R75PD2100--B--
0.012 μF	4.0	9.0	10.0	7.5	600	760 E3	R75PD2120--B--
0.015 μF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2150--B--
0.018 μF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2180--B--
0.022 μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2220--A--
0.027 μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2270--A--



The derating curves of previous table are not included in this catalogue, available upon request.

Rated Cap.	630Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
1000 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1100--4--
1200 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1120--4--
1500 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1150--4--
1800 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1180--4--
2200 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1220--4--
2700 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1270--4--
3300 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1330--4--
3900 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1390--4--
4700 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1470--4--
5600 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1560--4--
6800 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1680--4--
8200 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1820--4--
0.010 μF	5.0	10.5	10.0	7.5	2400	760 E3	R75PD2100--4--
0.012 μF	5.0	10.5	10.0	7.5	2400	760 E3	R75PD2120--4--
0.015 μF	6.0	12.0	10.5	7.5	2400	760 E3	R75PD2150--3--
0.018 μF	6.0	12.0	10.5	7.5	2400	760 E3	R75PD2180--3--
1000 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1100--0--
1200 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1120--0--
1500 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1150--0--
1800 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1180--0--
2200 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1220--0--
2700 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1270--0--
3300 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1330--0--
3900 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1390--0--
4700 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1470--0--
5600 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1560--0--
6800 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1680--0--
8200 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1820--0--
0.010 μF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF2100--3--
0.012 μF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF2120--3--
0.015 μF	5.0	11.0	13.0	10.0	2000	690 E3	R75PF2150--3--
0.018 μF	5.0	11.0	13.0	10.0	2000	690 E3	R75PF2180--3--
0.022 μF	6.0	12.0	13.0	10.0	2000	690 E3	R75PF2220--3--
0.027 μF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2270--0--
0.033 μF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2330--0--
0.039 μF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2390--3--
0.047 μF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2470--3--
0.056 μF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2560--3--
0.068 μF	6.0	12.0	18.0	15.0	1000	504 E3	R75PI 2680--3--
0.082 μF	6.0	12.0	18.0	15.0	1000	504 E3	R75PI 2820--3--
0.10 μF	7.5	13.5	18.0	15.0	1000	504 E3	R75PI 3100--3--
0.10 μF	9.0	12.5	18.0	15.0	1000	504 E3	R75PI 3100--7--
0.12 μF	7.5	13.5	18.0	15.0	1000	504 E3	R75PI 3120--3--
0.12 μF	9.0	12.5	18.0	15.0	1000	504 E3	R75PI 3120--7--
0.15 μF	8.5	14.5	18.0	15.0	1000	504 E3	R75PI 3150--3--
0.15 μF	13.0	12.0	18.0	15.0	1000	504 E3	R75PI 3150--7--
0.18 μF	10.0	16.0	18.0	15.0	1000	504 E3	R75PI 3180--3--
0.18 μF	13.0	12.0	18.0	15.0	1000	504 E3	R75PI 3180--7--
0.22 μF	10.0	16.0	18.0	15.0	1000	504 E3	R75PI 3220--3--
0.27 μF	11.0	19.0	18.0	15.0	1000	504 E3	R75PI 3270--3--
0.33 μF	11.0	19.0	18.0	15.0	1000	504 E3	R75PI 3330--3--

Rated Cap.	630Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.082 μF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 2820--3--
0.10 μF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3100--3--
0.12 μF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3120--3--
0.15 μF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3150--3--
0.18 μF	7.0	16.0	26.5	22.5	400	315 E3	R75PN 3180--3--
0.22 μF	7.0	16.0	26.5	22.5	400	315 E3	R75PN 3220--3--
0.27 μF	8.5	17.0	26.5	22.5	400	315 E3	R75PN 3270--3--
0.33 μF	10.0	18.5	26.5	22.5	400	315 E3	R75PN 3330--3--
0.39 μF	10.0	18.5	26.5	22.5	400	315 E3	R75PN 3390--3--
0.47 μF	11.0	20.0	26.5	22.5	400	315 E3	R75PN 3470--3--
0.56 μF	11.0	20.0	26.5	22.5	400	315 E3	R75PN 3560--3--
0.68 μF	13.0	22.0	26.5	22.5	400	315 E3	R75PN 3680--3--
0.39 μF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3390--3--
0.47 μF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3470--4--
0.56 μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3560--3--
0.68 μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3680--3--
0.82 μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 3820--3--
1.0 μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 4100--3--
1.2 μF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4120--4--
1.5 μF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4150--3--
1.8 μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4180--3--
2.2 μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4220--3--
2.7 μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4270--3--
3.3 μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4330--3--
0.68 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3680--3--
0.82 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3820--3--
1.0 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW4100--3--
1.2 μF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4120--3--
1.5 μF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4150--3--
1.8 μF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4180--3--
2.2 μF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4220--3--
2.7 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4270--3--
3.3 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4330--3--
3.9 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4390--4--
4.7 μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4470--3--
5.6 μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4560--4--
6.8 μF	24.0	44.0	41.5	37.5	90	113 E3	R75PW4680--3--
8.2 μF	30.0	45.0	41.5	37.5	90	113 E3	R75PW4820--3--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____
All dimensions are mm.

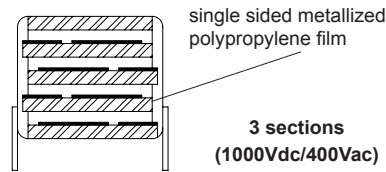
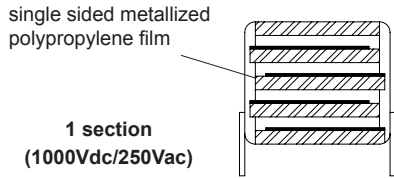
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.

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 151)

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)



Rated Cap.	1000Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	ρ			
0.012 μF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2120--0--
0.015 μF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2150--0--
0.018 μF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2180--0--
0.022 μF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2220--0--
0.027 μF	6.0	12.0	18.0	15.0	2000	900 E3	R75QI 2270--0--
0.033 μF	6.0	12.0	18.0	15.0	2000	900 E3	R75QI 2330--0--
0.039 μF	7.5	13.5	18.0	15.0	2000	900 E3	R75QI 2390--0--
0.047 μF	7.5	13.5	18.0	15.0	2000	900 E3	R75QI 2470--0--
0.047 μF	9.0	12.5	18.0	15.0	2000	900 E3	R75QI 2470--6--
0.056 μF	8.5	14.5	18.0	15.0	2000	900 E3	R75QI 2560--0--
0.056 μF	9.0	12.5	18.0	15.0	2000	900 E3	R75QI 2560--6--
0.068 μF	8.5	14.5	18.0	15.0	2000	900 E3	R75QI 2680--0--
0.068 μF	13.0	12.0	18.0	15.0	2000	900 E3	R75QI 2680--6--
0.082 μF	10.0	16.0	18.0	15.0	2000	900 E3	R75QI 2820--0--
0.10 μF	11.0	19.0	18.0	15.0	2000	900 E3	R75QI 3100--0--
0.047 μF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2470--0--
0.056 μF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2560--0--
0.068 μF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2680--0--
0.082 μF	7.0	16.0	26.5	22.5	600	600 E3	R75QN 2820--0--
0.10 μF	7.0	16.0	26.5	22.5	600	600 E3	R75QN 3100--0--
0.12 μF	8.5	17.0	26.5	22.5	600	600 E3	R75QN 3120--0--
0.15 μF	10.0	18.5	26.5	22.5	600	600 E3	R75QN 3150--0--
0.18 μF	10.0	18.5	26.5	22.5	600	600 E3	R75QN 3180--0--
0.22 μF	11.0	20.0	26.5	22.5	600	600 E3	R75QN 3220--0--
0.15 μF	9.0	17.0	32.0	27.5	200	400 E3	R75QR 3150--0--
0.18 μF	9.0	17.0	32.0	27.5	200	400 E4	R75QR 3180--0--
0.22 μF	11.0	20.0	32.0	27.5	200	400E4	R75QR 3220--1--
0.27 μF	11.0	20.0	32.0	27.5	200	400 E3	R75QR 3270--0--
0.33 μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3330--0--
0.39 μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3390--0--
0.47 μF	13.0	25.0	32.0	27.5	200	400 E3	R75QR 3470--1--
0.56 μF	14.0	28.0	32.0	27.5	200	400 E3	R75QR 3560--1--
0.68 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3680--0--
0.82 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3820--0--
1.0 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 4100--0--
1.2 μF	22.0	37.0	32.0	27.5	200	400 E4	R75QR 4120--0--
1.5 μF	22.0	37.0	32.0	27.5	200	400 E3	R75QR 4150--0--
0.27 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3270--0--
0.33 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3330--0--
0.39 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3390--0--
0.47 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3470--0--
0.56 μF	13.0	24.0	41.5	37.5	150	300 E3	R75QW3560--0--
0.68 μF	13.0	24.0	41.5	37.5	150	300E3	R75QW3680--0--
0.82 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW3820--0--
1.0 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW4100--0--
1.2 μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4120--0--
1.5 μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4150--0--
1.8 μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4180--0--
2.2 μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4220--0--
2.7 μF	24.0	44.0	41.5	37.5	150	300 E3	R75QW4270--0--
3.3 μF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4330--0--
3.9 μF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4390--0--

Rated Cap.	1000Vdc / 400Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	ρ			
220 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0220--3--
270 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0270--3--
330 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0330--3--
390 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0390--3--
470 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0470--3--
560 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0560--3--
680 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0680--3--
820 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0820--3--
1000 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 1100--3--
1200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1120--3--
1500 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1150--3--
1800 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1180--3--
2200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1220--3--
2700 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1270--3--
3300 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1330--3--
3900 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1390--3--
4700 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1470--3--
5600 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1560--3--
6800 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1680--3--
8200 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1820--3--

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

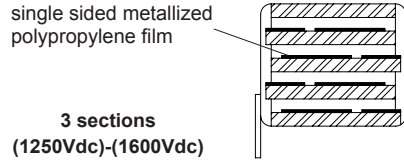
All dimensions are mm.
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K₀ depends on the voltage waveform 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: J (±5%); K (±10%); M (±20%) _____

Note: * Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 151)

HIGH PERFORMANCES
POLYPROPYLENE FILM CAPACITOR D.C. AND
PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: 0 to 9)



Rated Cap.	1250Vdc / 600Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	ρ			
8200 pF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 1820-3-
0.010 μF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 2100-3-
0.012 μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2120-3-
0.015 μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2150-3-
0.018 μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2180-3-
0.022 μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2220-3-
0.027 μF	9.0	12.5	18.0	15.0	3300	825 E4	R75RI 2220-7-
0.027 μF	8.5	14.5	18.0	15.0	3300	825 E4	R75RI 2270-3-
0.027 μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2270-7-
0.033 μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2330-3-
0.033 μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2330-7-
0.039 μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2390-3-
0.047 μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2470-3-
0.056 μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2560-3-
0.033 μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2330-3-
0.039 μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2390-3-
0.047 μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2470-3-
0.056 μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2560-3-
0.068 μF	8.5	17.0	26.5	22.5	2100	525 E4	R75RN 2680-3-
0.082 μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 2820-3-
0.10 μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 3100-3-
0.12 μF	11.0	20.0	26.5	22.5	2100	525 E4	R75RN 3120-3-
0.15 μF	13.0	22.0	26.5	22.5	2100	525 E4	R75RN 3150-3-
0.10 μF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3100-4-
0.12 μF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3120-4-
0.15 μF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3150-4-
0.18 μF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3180-4-
0.22 μF	13.0	22.0	32.0	27.5	500	125 E4	R75RR 3220-4-
0.27 μF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3270-4-
0.33 μF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3330-4-
0.39 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3390-4-
0.47 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3470-4-
0.56 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3560-4-
0.68 μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3680-4-
0.82 μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3820-4-
0.27 μF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3270-3-
0.33 μF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3330-3-
0.39 μF	13.0	24.0	41.5	37.5	360	125 E4	R75RW3390-3-
0.47 μF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3470-4-
0.56 μF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3560-4-
0.68 μF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3680-4-
0.82 μF	19.0	32.0	41.5	37.5	360	125 E4	R75RW3820-4-
1.0 μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4100-3-
1.2 μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4120-4-
1.5 μF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4150-4-
1.8 μF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4180-3-
2.2 μF	30.0	45.0	41.5	37.5	360	125 E4	R75RW4220-3-

Rated Cap.	1600Vdc / 650Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	ρ			
3900 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R75TI 1390-3-
4700 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R75TI 1470-3-
5600 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI 1560-3-
6800 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI 1680-3-
8200 pF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI 1820-3-
0.010 μF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI 2100-3-
0.012 μF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI 2120-3-
0.015 μF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI 2150-3-
0.018 μF	8.5	14.5	18.0	15.0	6000	1900 E4	R75TI 2180-3-
0.018 μF	9.0	12.5	18.0	15.0	6000	1900 E4	R75TI 2180-7-
0.022 μF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI 2220-3-
0.022 μF	13.0	12.0	18.0	15.0	6000	1900 E4	R75TI 2220-7-
0.027 μF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI 2270-3-
0.033 μF	11.0	19.0	18.0	15.0	6000	1900 E4	R75TI 2330-3-
0.027 μF	6.0	15.0	26.5	22.5	3000	960 E4	R75TN 2270-3-
0.033 μF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN 2330-3-
0.039 μF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN 2390-3-
0.047 μF	8.5	17.0	26.5	22.5	3000	960 E4	R75TN 2470-3-
0.056 μF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN 2560-3-
0.068 μF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN 2680-3-
0.082 μF	11.0	20.0	26.5	22.5	3000	960 E4	R75TN 2820-3-
0.10 μF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN 3100-3-
0.12 μF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN 3120-3-
0.068 μF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR 2680-3-
0.082 μF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR 2820-3-
0.10 μF	11.0	20.0	32.0	27.5	1500	480 E4	R75TR 3100-4-
0.12 μF	11.0	20.0	32.0	27.5	1500	480 E4	R75TR 3120-3-
0.15 μF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR 3150-3-
0.18 μF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR 3180-3-
0.22 μF	13.0	25.0	32.0	27.5	1500	480 E4	R75TR 3220-4-
0.27 μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3270-3-
0.33 μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3330-3-
0.39 μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3390-3-
0.47 μF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR 3470-3-
0.56 μF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR 3560-3-
0.18 μF	11.0	22.0	41.5	37.5	750	240 E4	R75TW 3180-3-
0.22 μF	11.0	22.0	41.5	37.5	750	240 E4	R75TW 3220-3-
0.27 μF	13.0	24.0	41.5	37.5	750	240 E4	R75TW 3270-3-
0.33 μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3330-3-
0.39 μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3390-3-
0.47 μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3470-3-
0.56 μF	19.0	32.0	41.5	37.5	750	240 E4	R75TW 3560-3-
0.68 μF	19.0	32.0	41.5	37.5	750	240 E4	R75TW 3680-3-
0.82 μF	20.0	40.0	41.5	37.5	750	240 E4	R75TW 3820-3-
1.0 μF	24.0	44.0	41.5	37.5	750	240 E4	R75TW 4100-3-
1.2 μF	24.0	44.0	41.5	37.5	750	240 E4	R75TW 4120-3-
1.5 μF	30.0	45.0	41.5	37.5	750	240 E4	R75TW 4150-3-

Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____
All dimensions are mm.

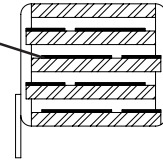
Mechanical version and packaging (Table1) _____
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

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.

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS
PRODUCT CODE: R75 (Digit 12: 0 to 9)

Rated Cap.	2000Vdc / 700Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
1000 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1100-4--
1200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1120-4--
1500 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1150-4--
1800 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1180-4--
2200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1220-4--
2700 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1270-4--
3300 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1330-4--
3900 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1390-3--
4700 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1470-3--
5600 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1560-3--
6800 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1680-3--
8200 pF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 1820-3--
0.010 μF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 2100-3--
0.012 μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2120-3--
0.012 μF	9.0	12.5	18.0	15.0	9500	3800 E4	R75UI 2120-7--
0.015 μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2150-3--
0.015 μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2150-7--
0.018 μF	10.0	16.0	18.0	15.0	9500	3800 E4	R75UI 2180-3--
0.018 μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2180-7--
0.022 μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2220-3--
0.027 μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2270-3--
4700 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1470-3--
5600 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1560-3--
6800 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1680-3--
8200 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1820-3--
0.010 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2100-3--
0.012 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2120-3--
0.015 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2150-3--
0.018 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2180-3--
0.022 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2220-3--
0.027 μF	7.0	16.0	26.5	22.5	3500	1400 E4	R75UN 2270-3--
0.033 μF	8.5	17.0	26.5	22.5	3500	1400 E4	R75UN 2330-3--
0.039 μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2390-3--
0.047 μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2470-3--
0.056 μF	11.0	20.0	26.5	22.5	3500	1400 E4	R75UN 2560-3--
0.068 μF	13.0	22.0	26.5	22.5	3500	1400 E4	R75UN 2680-3--
0.047 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2470-3--
0.056 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2560-3--
0.068 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2680-4--
0.082 μF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 2820-4--
0.10 μF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 3100-3--
0.12 μF	13.0	22.0	32.0	27.5	1000	400 E4	R75UR 3120-3--
0.15 μF	13.0	25.0	32.0	27.5	1000	400 E4	R75UR 3150-4--
0.18 μF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3180-3--
0.22 μF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3220-4--
0.27 μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3270-3--
0.33 μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3330-4--
0.39 μF	22.0	37.0	32.0	37.5	1000	400 E4	R75UR 3390-3--
0.47 μF	22.0	37.0	32.0	27.5	1000	400 E4	R75UR 3470-4--
0.15 μF	11.0	22.0	41.5	37.5	500	200 E4	R75UW3150-3--
0.18 μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3180-3--
0.22 μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3220-3--
0.27 μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3270-3--
0.33 μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3330-3--
0.39 μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3390-3--
0.47 μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3470-3--
0.56 μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3560-4--
0.68 μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3680-3--
0.82 μF	24.0	44.0	41.5	37.5	500	200 E4	R75UW3820-4--
1.0 μF	24.0	44.0	41.5	37.5	500	200 E4	R75UW4100-3--

single sided metallized polypropylene film



3 sections (2000Vdc)

All dimensions are 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: J (±5%); K (±10%); M (±20%) _____

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS
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ELECTRICAL CHARACTERISTICS

Rated voltage (V_R):

160Vdc - 250Vdc - 400Vdc - 630Vdc - 1000Vdc
for 1 section.
1250Vdc - 1600Vdc - 2000Vdc
for 3 sections.

Rated temperature (T_R): +85°C

Temperature derated voltage:

The following decreasing factor has to be applied on the rated voltage:

+85°C to +105°C: 2.00% per °C for V_R (d.c.)
+85°C to +105°C: 1.25% per °C for V_R (a.c.)

Capacitance range:

1000 pF to 33 μ F for 1 section.
1000 pF to 2.2 μ F for 3 sections.

Capacitance values:

E12 series (IEC 60063 Norm).

Capacitance tolerances (measured at 1 kHz):

±5% (J); ±10% (K); ±20% (M).

Total self-inductance (L): (Lead length ~2 mm)

Pitch (mm)	7.5	10	15	22.5	27.5	37.5
L (nH) \approx	8	9	10	18	18	20

Dissipation factor (DF):

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

kHz	$C \leq 0.1\mu\text{F}$	$0.1 < C \leq 1.0\mu\text{F}$	$1 < C \leq 4.7\mu\text{F}$	$C > 4.7\mu\text{F}$
1	≤ 4	≤ 5	≤ 6	≤ 10
10	≤ 6	≤ 8		
100	≤ 25			

Insulation resistance:

Test conditions

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

Performance

$\geq 1 \times 10^5 \text{ M}\Omega$ for $C \leq 0.33\mu\text{F}$ ($5 \times 10^5 \text{ M}\Omega$)*
 $\geq 30000 \text{ s}$ for $C > 0.33\mu\text{F}$ (150000 s)*
* Typical value.

Test voltage between terminations:

$1.6 \times V_R$ 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 $|\Delta C/C|$: $\leq 2\%$
DF change ($\Delta \text{tg}\delta$): $\leq 10 \times 10^{-4}$ at 1kHz
Insulation resistance: $\geq 50\%$ of initial limit.

Endurance:

Test conditions

Temperature: +85°C ±2°C
Test duration: 2000 h
Voltage applied: $1.25 \times V_R$

Performance

Capacitance change $|\Delta C/C|$: $\leq 3\%$
DF change ($\Delta \text{tg}\delta$): $\leq 10 \times 10^{-4}$ at 10kHz for $C \leq 1\mu\text{F}$
 $\leq 10 \times 10^{-4}$ at 1kHz for $C > 1\mu\text{F}$
Insulation resistance: $\geq 50\%$ 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 $|\Delta C/C|$: $\leq 1\%$
DF change ($\Delta \text{tg}\delta$): $\leq 10 \times 10^{-4}$ at 10kHz for $C \leq 1\mu\text{F}$
 $\leq 10 \times 10^{-4}$ at 1kHz for $C > 1\mu\text{F}$
Insulation resistance: \geq initial limit.

Long term stability (after two years):

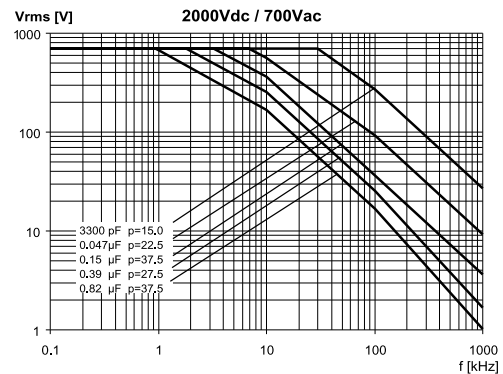
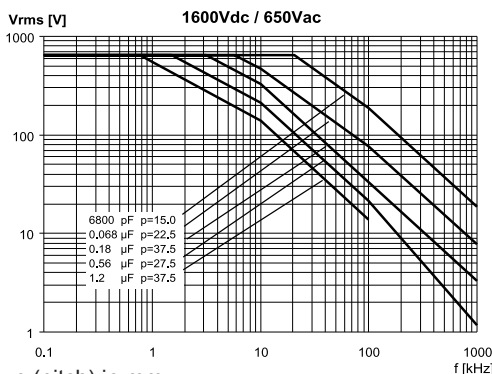
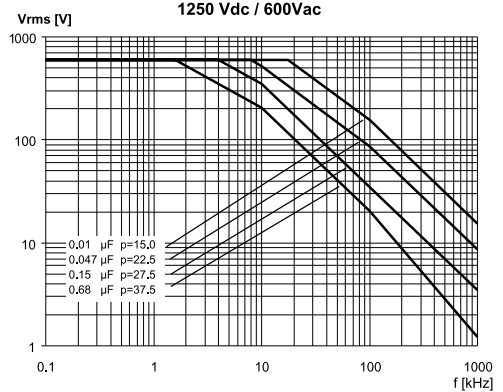
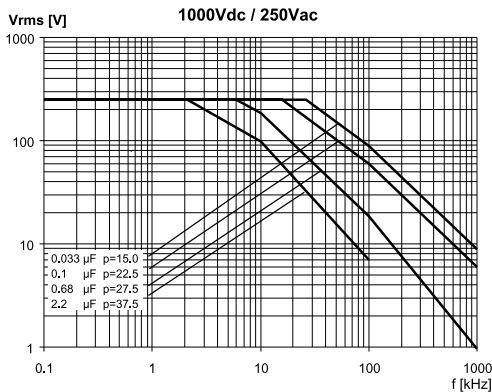
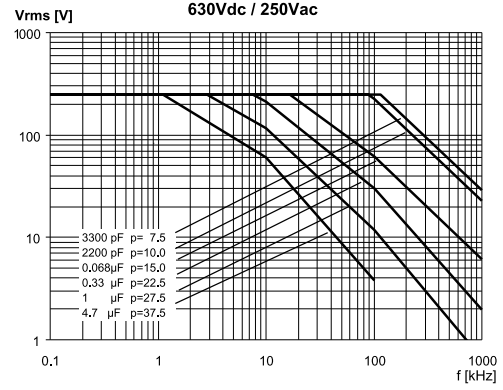
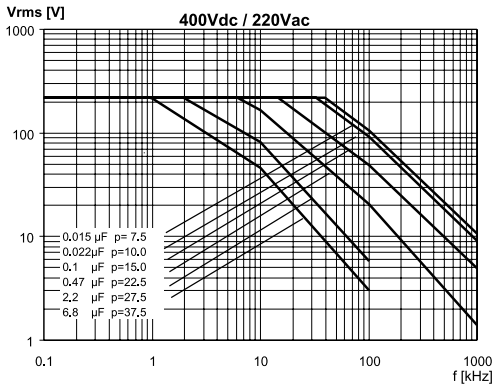
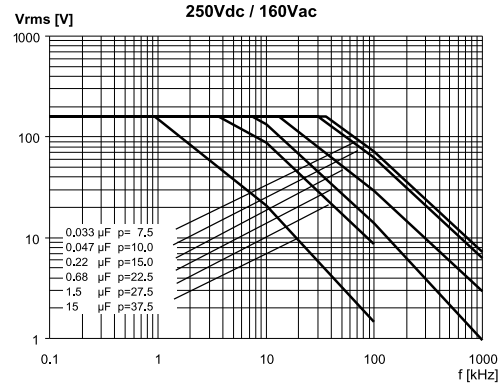
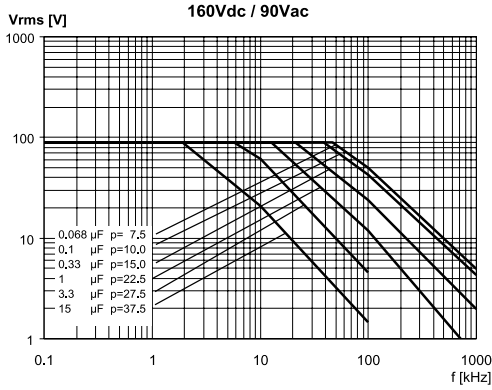
Storage: standard environmental conditions (see page 12)

Performance

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

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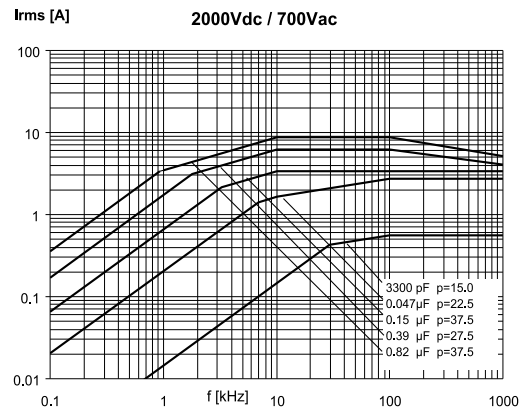
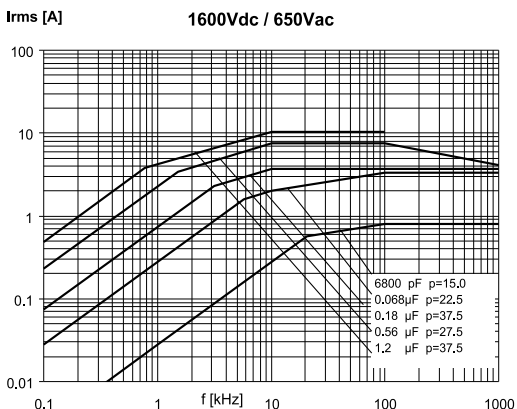
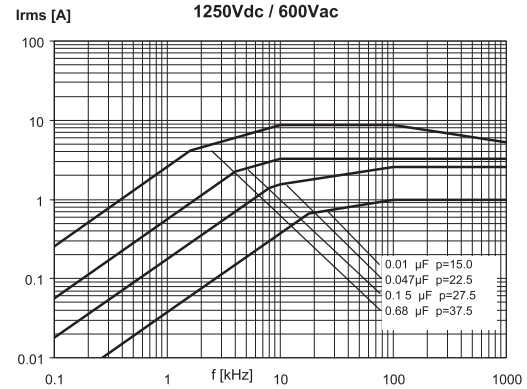
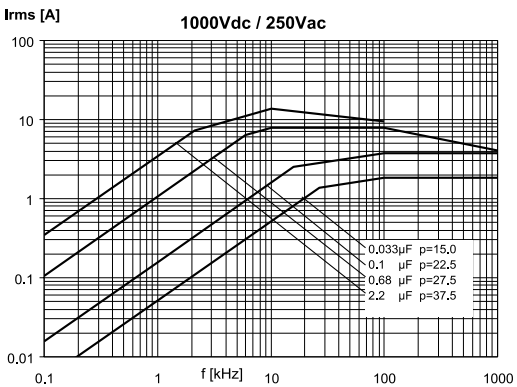
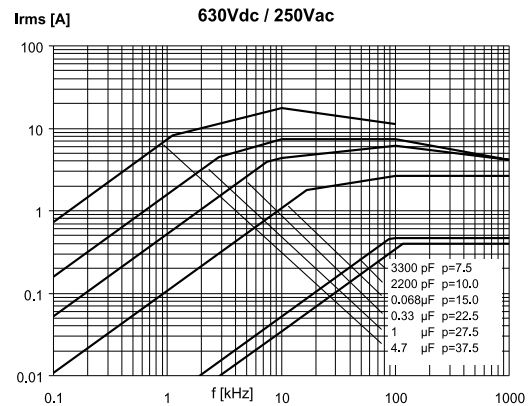
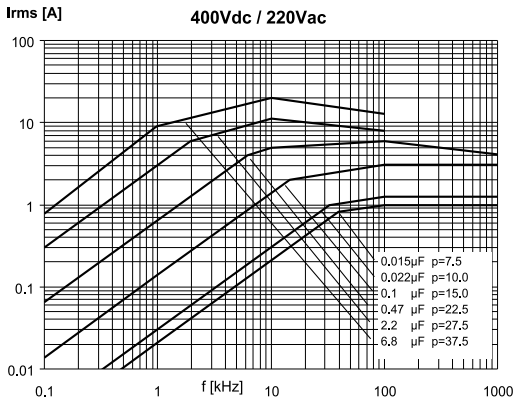
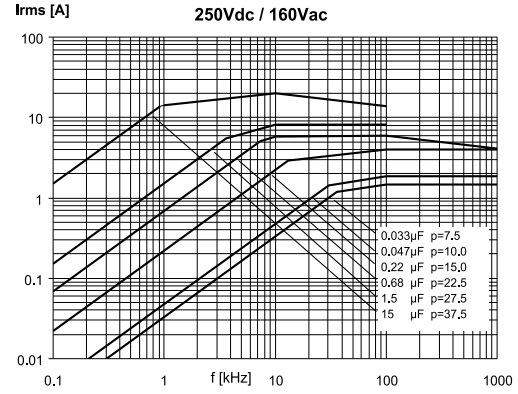
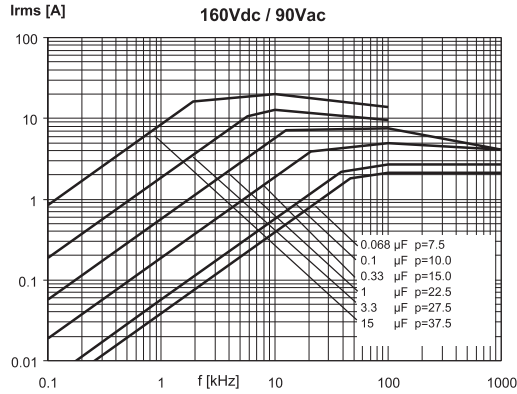
MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)



Note: p (pitch) in mm.
09/2008

HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR
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MAX. CURRENT (I_{r.m.s.}) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)



Note: p (pitch) in mm.