

Ød±0.05	p≤15*	22.5≤p≤27.5	p = 37.5
	0.6	0.8	1.0

*Except for box ≥10x16x18 having Ød = 0.8±0.05mm

All dimensions are in mm.

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	5										-	

Digit 1 to 3 Series code.

Digit 4 d.c. rated voltage:

G = 160V I = 250V

M = 400V P = 630V

Q = 1000V

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 (A to Z).

Digit 13 Internal use.

Digit 14 Capacitance tolerance:

J=5%; K=10%; M=20%

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 (p≥15mm)	30 ⁺⁵				40
	25 ^{+2/-1}				50

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

REDUCED SIZES

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, coupling capacitor in SMPS, timing and oscillator circuits.

PRODUCT CODE: **R75 (Digit 12: A to Z)**

Pitch (mm)	Box thickness (B) (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: metal layer deposited by evaporation under vacuum.

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: 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

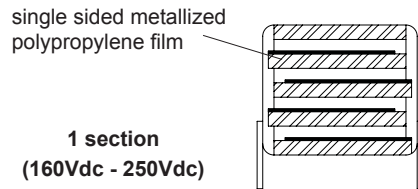
Operating temperature range: -55 to +105°C

Related documents: IEC 60384-16

REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: **R75 (Digit 12: A to Z)**



Rated Cap.	160Vdc / 70Vac Std dimensions				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--

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

Rated Cap.	250Vdc / 140Vac 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	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--

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

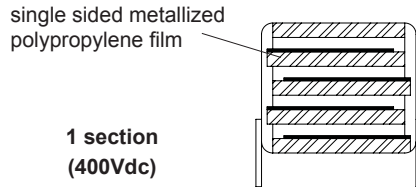
All dimensions are mm.

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.

REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: R75 (Digit 12: A to Z)



Rated Cap.	400Vdc / 200Vac 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	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--
0.022 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2220--M--
0.027 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2270--M--
0.033 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2330--M--
0.039 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2390--M--
0.047 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2470--M--
0.056 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2560--M--
0.068 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2680--M--
0.082 μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 2820--M--
0.10 μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 3100--M--
0.10 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3100--M--
0.12 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3120--M--
0.15 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3150--M--
0.18 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3180--M--
0.22 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3220--M--
0.27 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3270--M--
0.33 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3330--M--
0.33 μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3330--N--
0.39 μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3390--M--
0.47 μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3470--M--
0.47 μF	13.0	12.0	18.0	15.0	300	240 E3	R75MI 3470--N--
0.56 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3560--M--
0.68 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3680--M--

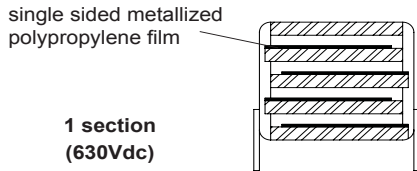
Mechanical version and packaging (Table1) _____
 Internal use _____
 Tolerance: J (±5%); K (±10%); M (±20%) _____

Rated Cap.	400Vdc / 200Vac Std dimensions				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.27 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN 3270--M--
0.33 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN 3330--M--
0.39 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN 3390--M--
0.47 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN 3470--M--
0.56 μF	7.0	16.0	26.5	22.5	180	160 E3	R75MN 3560--M--
0.68 μF	7.0	16.0	26.5	22.5	180	160 E3	R75MN 3680--M--
0.82 μF	8.5	17.0	26.5	22.5	180	160 E3	R75MN 3820--M--
1.0 μF	10.0	18.5	26.5	22.5	180	160 E3	R75MN 4100--M--
1.2 μF	10.0	18.5	26.5	22.5	180	160 E3	R75MN 4120--M--
1.5 μF	11.0	20.0	26.5	22.5	180	160 E3	R75MN 4150--M--
1.8 μF	13.0	22.0	26.5	22.5	180	160 E3	R75MN 4180--M--
0.68 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 3680--M--
0.82 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 3820--M--
1.0 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4100--M--
1.2 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4120--M--
1.5 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4150--M--
1.8 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4180--M--
2.2 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4220--M--
2.7 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4270--M--
3.3 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR 4330--M--
3.9 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR 4390--M--
4.7 μF	18.0	33.0	32.0	27.5	80	60 E3	R75MR 4470--M--
2.2 μF	11.0	22.0	41.5	37.5	70	60 E3	R75MW4220--M--
2.7 μF	11.0	22.0	41.5	37.5	70	60 E3	R75MW4270--M--
3.3 μF	11.0	22.0	41.5	37.5	70	60 E3	R75MW4330--M--
3.9 μF	13.0	24.0	41.5	37.5	70	60 E3	R75MW4390--M--
4.7 μF	16.0	28.5	41.5	37.5	70	60 E3	R75MW4470--M--
5.6 μF	16.0	28.5	41.5	37.5	40	30 E3	R75MW4560--M--
6.8 μF	16.0	28.5	41.5	37.5	40	30 E3	R75MW4680--M--
8.2 μF	19.0	32.0	41.5	37.5	40	30 E3	R75MW4820--M--
10.0 μF	20.0	40.0	41.5	37.5	40	30 E3	R75MW5100--M--
12.0 μF	20.0	40.0	41.5	37.5	40	30 E3	R75MW5120--M--
15.0 μF	24.0	44.5	41.5	37.5	20	15 E3	R75MW5150--M--
18.0 μF	24.0	44.5	41.5	37.5	20	15 E3	R75MW5180--M--
22.0 μF	30.0	45.0	41.5	37.5	20	15 E3	R75MW5220--M--

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.



REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: **R75 (Digit 12: A to Z)**

Rated Cap.	630Vdc / 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	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--	
0.010 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2100--M--	
0.012 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2120--M--	
0.015 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2150--M--	
0.018 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2180--M--	
0.022 μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2220--M--	
0.027 μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2270--M--	
0.033 μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2330--M--	
0.039 μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2390--M--	
0.047 μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2470--M--	
0.056 μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2560--M--	
0.068 μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2680--M--	
0.010 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2100--M--	
0.012 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2120--M--	
0.015 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2150--M--	
0.018 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2180--M--	
0.022 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2220--M--	
0.027 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2270--M--	
0.033 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2330--M--	
0.039 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2390--M--	
0.047 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2470--M--	
0.056 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2560--M--	
0.068 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2680--M--	
0.082 μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2820--M--	
0.10 μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 3100--M--	
0.12 μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3120--M--	
0.15 μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3150--M--	
0.18 μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3180--M--	
0.22 μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3220--M--	
0.27 μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3220--N--	
0.27 μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3270--M--	
0.33 μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3330--M--	
0.33 μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3330--N--	
0.39 μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3390--M--	
0.47 μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3470--M--	
0.15 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3150--M--	
0.18 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3180--M--	
0.22 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3220--M--	
0.27 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3270--M--	
0.33 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3330--M--	
0.39 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3390--M--	
0.47 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3470--M--	
0.56 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3560--M--	
0.68 μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN3680--M--	
0.82 μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN3820--M--	
1.0 μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN4100--M--	

Rated Cap.	630Vdc / 220Vac* Std dimensions					Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p				
0.47 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR3470--M--	
0.56 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR3560--M--	
0.68 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR3680--M--	
0.82 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR3820--N--	
0.82 μF	11.0	20.0	32.0	27.5	150	189 E3	R75PR3820--M--	
1.0 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR4100--N--	
1.0 μF	11.0	20.0	32.0	27.5	150	189 E3	R75PR4100--M--	
1.2 μF	9.0	17.0	32.0	27.5	150	189 E3	R75PR4120--N--	
1.2 μF	13.0	22.0	32.0	27.5	150	189 E3	R75PR4120--M--	
1.5 μF	11.0	20.0	32.0	27.5	150	189 E3	R75PR4150--N--	
1.5 μF	13.0	22.0	32.0	27.5	150	189 E3	R75PR4150--M--	
1.8 μF	11.0	20.0	32.0	27.5	150	189 E3	R75PR4180--N--	
1.8 μF	14.0	28.0	32.0	27.5	150	189 E3	R75PR4180--M--	
2.2 μF	13.0	25.0	32.0	27.5	150	189 E3	R75PR4220--N--	
2.2 μF	14.0	28.0	32.0	27.5	150	189 E3	R75PR4220--M--	
2.7 μF	13.0	25.0	32.0	27.5	150	189 E3	R75PR4270--N--	
2.7 μF	18.0	33.0	32.0	27.5	150	189 E3	R75PR4270--M--	
3.3 μF	14.0	28.0	32.0	27.5	150	189 E3	R75PR4330--N--	
3.3 μF	18.0	33.0	32.0	27.5	150	189 E3	R75PR4330--M--	
3.9 μF	14.0	28.0	32.0	27.5	100	126 E3	R75PR4390--N--	
3.9 μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4390--M--	
4.7 μF	18.0	33.0	32.0	27.5	100	126 E3	R75PR4470--N--	
4.7 μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4470--M--	
5.6 μF	18.0	33.0	32.0	27.5	100	126 E3	R75PR4560--N--	
6.8 μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4680--N--	
8.2 μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4820--N--	
1.5 μF	11.0	22.0	41.5	37.5	100	126 E3	R75PW4150--M--	
1.8 μF	11.0	22.0	41.5	37.5	100	126 E3	R75PW4180--M--	
2.2 μF	11.0	22.0	41.5	37.5	100	126 E3	R75PW4220--N--	
2.2 μF	13.0	24.0	41.5	37.5	100	126 E3	R75PW4220--M--	
2.7 μF	11.0	22.0	41.5	37.5	100	126 E3	R75PW4270--N--	
2.7 μF	13.0	24.0	41.5	37.5	100	126 E3	R75PW4270--M--	
3.3 μF	13.0	24.0	41.5	37.5	100	126 E3	R75PW4330--N--	
3.3 μF	16.0	28.5	41.5	37.5	100	126 E3	R75PW4330--M--	
3.9 μF	13.0	24.0	41.5	37.5	100	126 E3	R75PW4390--N--	
3.9 μF	16.0	28.5	41.5	37.5	100	126 E3	R75PW4390--M--	
4.7 μF	16.0	28.5	41.5	37.5	60	75.6 E3	R75PW4470--N--	
4.7 μF	19.0	32.0	41.5	37.5	60	75.6 E3	R75PW4470--M--	
5.6 μF	16.0	28.5	41.5	37.5	60	75.6 E3	R75PW4560--N--	
5.6 μF	19.0	32.0	41.5	37.5	60	75.6 E3	R75PW4560--M--	
6.8 μF	19.0	32.0	41.5	37.5	60	75.6 E3	R75PW4680--N--	
6.8 μF	20.0	40.0	41.5	37.5	60	75.6 E3	R75PW4680--M--	
8.2 μF	19.0	32.0	41.5	37.5	60	75.6 E3	R75PW4820--N--	
8.2 μF	20.0	40.0	41.5	37.5	60	75.6 E3	R75PW4820--M--	
10.0 μF	20.0	40.0	41.5	37.5	60	75.6 E3	R75PW5100--N--	
10.0 μF	24.0	44.0	41.5	37.5	60	75.6 E3	R75PW5100--M--	
12.0 μF	24.0	44.0	41.5	37.5	30	37.8 E3	R75PW5120--M--	
15.0 μF	24.0	44.0	41.5	37.5	30	37.8 E3	R75PW5150--N--	
15.0 μF	30.0	45.0	41.5	37.5	30	37.8 E3	R75PW5150--M--	
18.0 μF	30.0	45.0	41.5	37.5	30	37.8 E3	R75PW5180--N--	
22.0 μF	30.0	45.0	41.5	37.5	30	37.8 E3	R75PW5220--N--	

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

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.

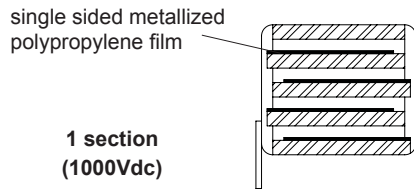
The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

* Not suitable for cross-the-line applications. Please refer to Interference Suppression Capacitors (page 183)

REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: R75 (Digit 12: A to Z)



Rated Cap.	1000Vdc / 250Vac* Std dimensions					Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p				
0.22 μF	9.0	17.0	32.0	27.5	180	360 E3	R75QR3220--M--	
0.27 μF	9.0	17.0	32.0	27.5	180	360 E33	R75QR3270--M--	
0.33 μF	9.0	17.0	32.0	27.5	180	360 E3	R75QR3330--N--	
0.33 μF	11.0	20.0	32.0	27.5	180	360 E3	R75QR3330--M--	
0.39 μF	9.0	17.0	32.0	27.5	180	360 E3	R75QR3390--N--	
0.39 μF	11.0	20.0	32.0	27.5	180	360 E3	R75QR3390--M--	
0.47 μF	9.0	17.0	32.0	27.5	180	360 E3	R75QR3470--N--	
0.47 μF	13.0	22.0	32.0	27.5	180	360 E3	R75QR3470--M--	
0.56 μF	9.0	17.0	32.0	27.5	180	360 E3	R75QR3560--N--	
0.56 μF	13.0	22.0	32.0	27.5	180	360 E3	R75QR3560--M--	
0.68 μF	11.0	20.0	32.0	27.5	180	360 E3	R75QR3680--N--	
0.68 μF	14.0	28.0	32.0	27.5	180	360 E3	R75QR3680--M--	
0.82 μF	11.0	20.0	32.0	27.5	180	360 E3	R75QR3820--N--	
0.82 μF	14.0	28.0	32.0	27.5	180	360 E3	R75QR3820--M--	
1.0 μF	13.0	22.0	32.0	27.5	180	360 E3	R75QR4100--N--	
1.0 μF	18.0	33.0	32.0	27.5	180	360 E3	R75QR4100--M--	
1.2 μF	13.0	25.0	32.0	27.5	180	360 E3	R75QR4120--N--	
1.2 μF	18.0	33.0	32.0	27.5	180	360 E3	R75QR4120--M--	
1.5 μF	14.0	28.0	32.0	27.5	180	360 E3	R75QR4150--N--	
1.5 μF	18.0	33.0	32.0	27.5	180	360 E3	R75QR4150--M--	
1.8 μF	14.0	28.0	32.0	27.5	180	360 E3	R75QR4180--N--	
1.8 μF	22.0	37.0	32.0	27.5	180	360 E3	R75QR4180--M--	
2.2 μF	18.0	33.0	32.0	27.5	180	360 E3	R75QR4220--N--	
2.2 μF	22.0	37.0	32.0	27.5	180	360 E3	R75QR4220--M--	
2.7 μF	18.0	33.0	32.0	27.5	180	360 E3	R75QR4270--N--	
3.3 μF	22.0	37.0	32.0	27.5	180	360 E3	R75QR4330--N--	
3.9 μF	22.0	37.0	32.0	27.5	180	360 E3	R75QR4390--N--	

Rated Cap.	1000Vdc / 250Vac* Std dimensions					Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p				
0.68 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3680--M--	
0.82 μF	13.0	24.0	41.5	37.5	150	300 E3	R75QW3820--M--	
1.0 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW4100--N--	
1.0 μF	13.0	24.0	41.5	37.5	150	300 E3	R75QW4100--M--	
1.2 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW4120--N--	
1.2 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW4120--M--	
1.5 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW4150--N--	
1.5 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW4150--M--	
1.8 μF	13.0	24.0	41.5	37.5	150	300 E3	R75QW4180--N--	
1.8 μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4180--M--	
2.2 μF	16.0	28.5	41.5	37.5	120	240 E3	R75QW4220--N--	
2.2 μF	19.0	32.0	41.5	37.5	120	240 E3	R75QW4220--M--	
2.7 μF	16.0	28.5	41.5	37.5	120	240 E3	R75QW4270--N--	
2.7 μF	20.0	40.0	41.5	37.5	120	240 E3	R75QW4270--M--	
3.3 μF	19.0	32.0	41.5	37.5	120	240 E3	R75QW4330--N--	
3.3 μF	24.0	44.0	41.5	37.5	120	240 E3	R75QW4330--M--	
3.9 μF	19.0	32.0	41.5	37.5	120	240 E3	R75QW4390--N--	
3.9 μF	24.0	44.0	41.5	37.5	120	240 E3	R75QW4390--M--	
4.7 μF	20.0	40.0	41.5	37.5	80	160 E3	R75QW4470--N--	
4.7 μF	24.0	44.0	41.5	37.5	80	160 E3	R75QW4470--M--	
5.6 μF	20.0	40.0	41.5	37.5	80	160 E3	R75QW4560--N--	
5.6 μF	30.0	45.0	41.5	37.5	80	160 E3	R75QW4560--M--	
6.8 μF	24.0	44.0	41.5	37.5	80	160 E3	R75QW4680--N--	
8.2 μF	24.0	44.0	41.5	37.5	80	160 E3	R75QW4820--N--	
10.0 μF	30.0	45.0	41.5	37.5	80	160 E3	R75QW5100--N--	

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

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 183)

REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: **R75 (Digit 12: A to Z)**

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R):

160Vdc - 250Vdc - 400Vdc - 630Vdc - 1000 Vdc.

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:

0.01µF to 22µF

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) ≈	8	9	10	18	18	20

Dissipation factor (DF):

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

kHz	$C \leq 0.1 \mu F$	$0.1 < C \leq 1.0 \mu F$	$1 < C \leq 22 \mu F$
1	≤ 4	≤ 5	≤ 6
10	≤ 6	≤ 12	
100	≤ 30		

Insulation resistance:

Test conditions

Temperature: +25°C ±5°C

Voltage charge time: 1 min

Voltage charge: 100Vdc

Performance

≥1x10⁵ MΩ for C ≤ 0.33 µF (5x10⁵ MΩ)*

≥30000 s for C > 0.33 µF (150000 s)*

* Typical value.

Test voltage between terminations:

1.6xV_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 |ΔC/C|: ≤2%

DF change (Δtgδ): ≤10x10⁻⁴ at 1kHz

Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions

Temperature: +85°C ±2°C

Test duration: 2000 h

Voltage applied: 1.25xV_R

Performance

Capacitance change |ΔC/C|: ≤3%

DF change (Δtgδ): ≤10x10⁻⁴ at 10kHz for C ≤ 1µF

≤10x10⁻⁴ at 1kHz for C ≥ 1µF

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): ≤10x10⁻⁴ at 10kHz for C ≤ 1µF

≤10x10⁻⁴ at 1kHz for C ≥ 1µF

Insulation resistance: ≥initial limit.

Long term stability (after two years):

Storage: standard environmental conditions (see page 12)

Performance

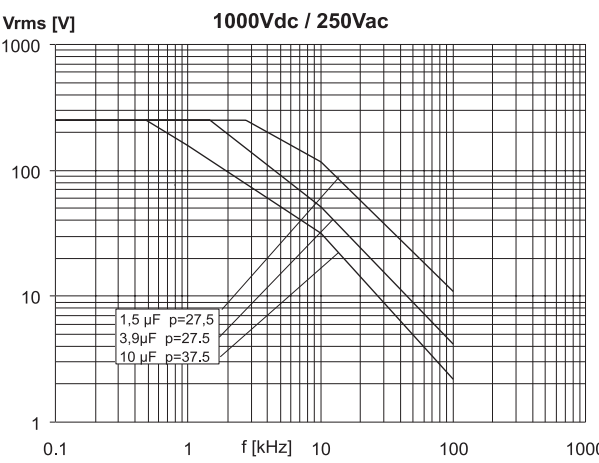
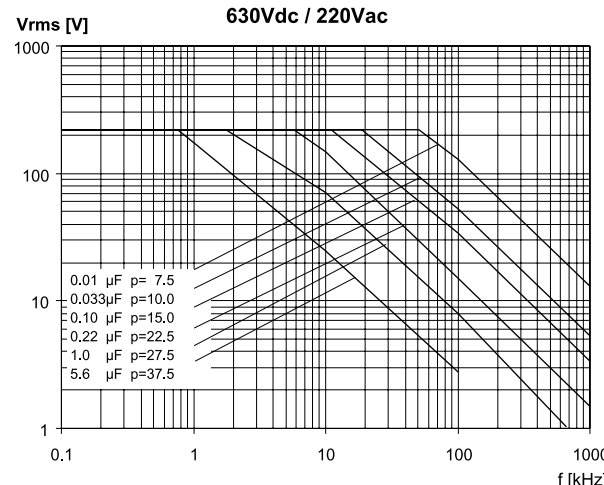
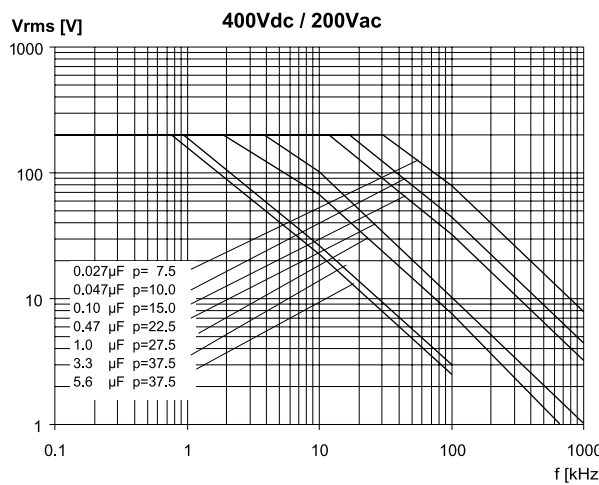
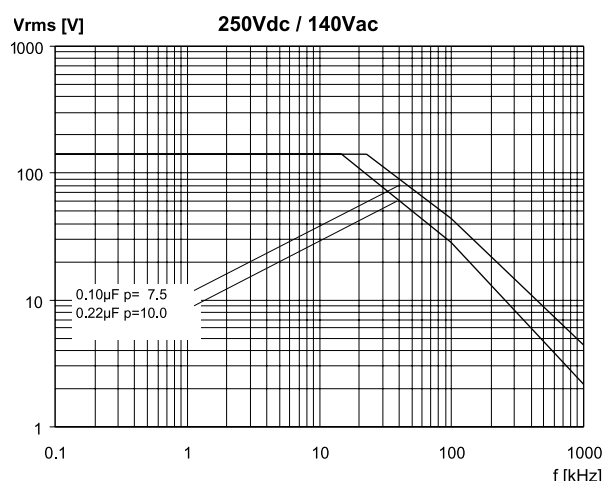
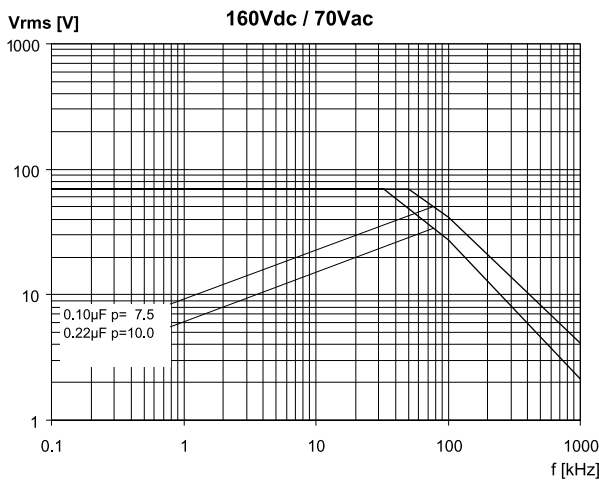
Capacitance change |ΔC/C|: ≤0.5%

REDUCED SIZES

METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

PRODUCT CODE: R75 (Digit 12: A to Z)

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



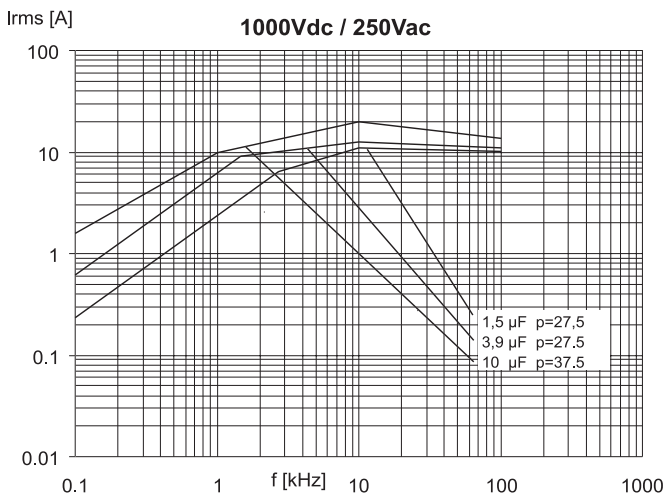
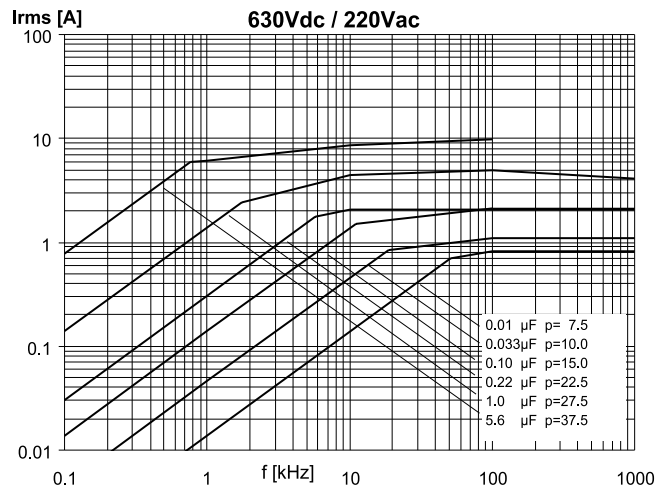
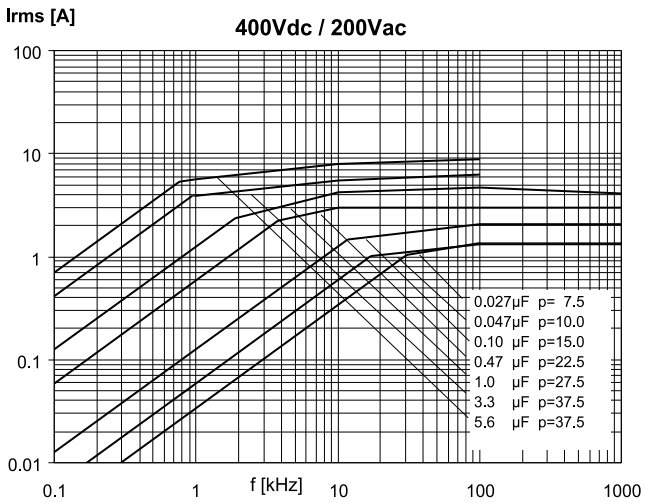
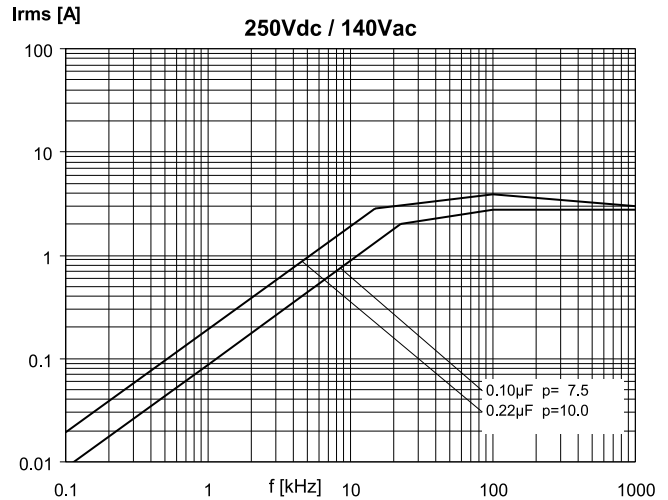
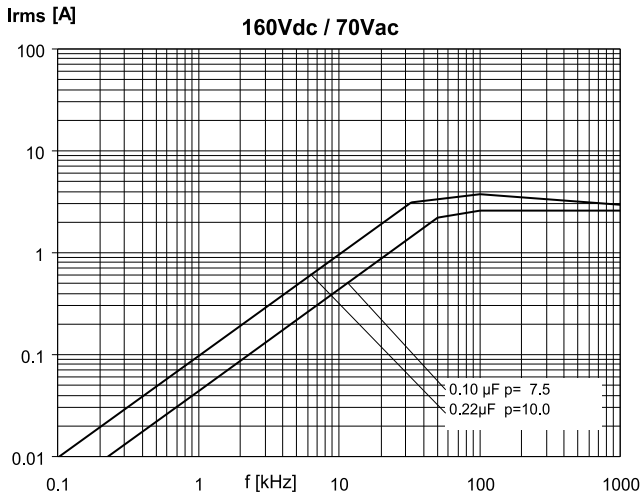
Note: p (pitch) in mm.

REDUCED SIZES

**METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: **R75 (Digit 12: A to Z)**

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



Note: p (pitch) in mm.