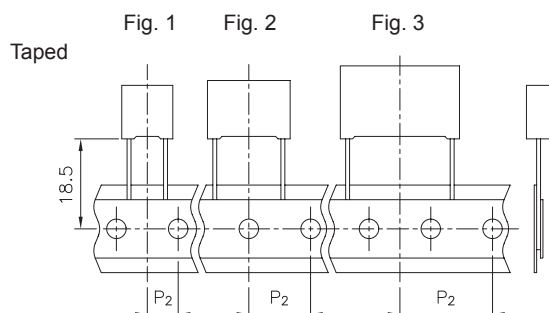
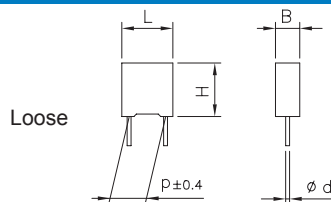




Ød±0.05	p = 7.5	10≤p≤15*	22.5≤p≤27.5	p = 37.5
	0.5	0.6	0.8	1.0

*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 25 ^{+2/-1}				40 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: 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

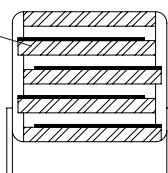
Operating temperature range: -55 to +105°C

Related documents: IEC 60384-16

REDUCED SIZES

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

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

single sided metallized
polypropylene film
1 section
(160Vdc - 250Vdc)


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.

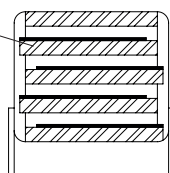
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.

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)

single sided metallized
polypropylene film1 section
(400Vdc)

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	R75MF2220--M--
0.027 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF2270--M--
0.033 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF2330--M--
0.039 μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF2390--M--
0.047 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF2470--M--
0.056 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF2560--M--
0.068 μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF2680--M--
0.082 μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF2820--M--
0.10 μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF3100--M--
0.10 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI3100--M--
0.12 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI3120--M--
0.15 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI3150--M--
0.18 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI3180--M--
0.22 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI3220--M--
0.27 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI3270--M--
0.33 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI3330--M--
0.33 μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI3330--N--
0.39 μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI3390--M--
0.47 μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI3470--M--
0.47 μF	13.0	12.0	18.0	15.0	300	240 E3	R75MI3470--N--
0.56 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI3560--M--
0.68 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI3680--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	R75MN3270--M--
0.33 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN3330--M--
0.39 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN3390--M--
0.47 μF	6.0	15.0	26.5	22.5	180	160 E3	R75MN3470--M--
0.56 μF	7.0	16.0	26.5	22.5	180	160 E3	R75MN3560--M--
0.68 μF	7.0	16.0	26.5	22.5	180	160 E3	R75MN3680--M--
0.82 μF	8.5	17.0	26.5	22.5	180	160 E3	R75MN3820--M--
1.0 μF	10.0	18.5	26.5	22.5	180	160 E3	R75MN4100--M--
1.2 μF	10.0	18.5	26.5	22.5	180	160 E3	R75MN4120--M--
1.5 μF	11.0	20.0	26.5	22.5	180	160 E3	R75MN4150--M--
1.8 μF	13.0	22.0	26.5	22.5	180	160 E3	R75MN4180--M--
0.68 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR3680--M--
0.82 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR3820--M--
1.0 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR4100--M--
1.2 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR4120--M--
1.5 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR4150--M--
1.8 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR4180--M--
2.2 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR4220--M--
2.7 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR4270--M--
3.3 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR4330--M--
3.9 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR4390--M--
4.7 μF	18.0	33.0	32.0	27.5	80	60 E3	R75MR4470--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)

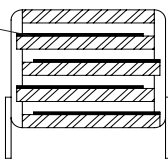
Internal use

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.

single sided metallized
polypropylene film1 section
(630Vdc)

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--
0.22 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--

Mechanical version and packaging (Table1)

Internal use

Tolerance: J (±5%); K (±10%); M (±20%)

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%)

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.

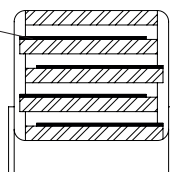
* Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 151)

05/2007

REDUCED SIZES

METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

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

single sided metallized
polypropylene film1 section
(1000Vdc)

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--

Mechanical version and packaging (Table1)

Internal use

Tolerance: J (±5%); K (±10%); M (±20%)

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%)

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)

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

kHz	$C \leq 0.1 \mu\text{F}$	$0.1 < C \leq 1.0 \mu\text{F}$	$1 < C \leq 22 \mu\text{F}$
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
 $\geq 1 \times 10^5 \text{ M}\Omega$ 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 $|\Delta C/C|$: ≤2%

 DF change ($\Delta \text{tg}\delta$): ≤10×10⁻⁴ at 1kHz

Insulation resistance: ≥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 $|\Delta C/C|$: ≤3%

 DF change ($\Delta \text{tg}\delta$): ≤10×10⁻⁴ at 10kHz for $C \leq 1 \mu\text{F}$

 ≤10×10⁻⁴ at 1kHz for $C \geq 1 \mu\text{F}$

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 $|\Delta C/C|$: ≤1%

 DF change ($\Delta \text{tg}\delta$): ≤10×10⁻⁴ at 10kHz for $C \leq 1 \mu\text{F}$

 ≤10×10⁻⁴ at 1kHz for $C \geq 1 \mu\text{F}$

Insulation resistance: ≥initial limit.

Long term stability (after two years):
Storage: standard environmental conditions (see page 12)

Performance

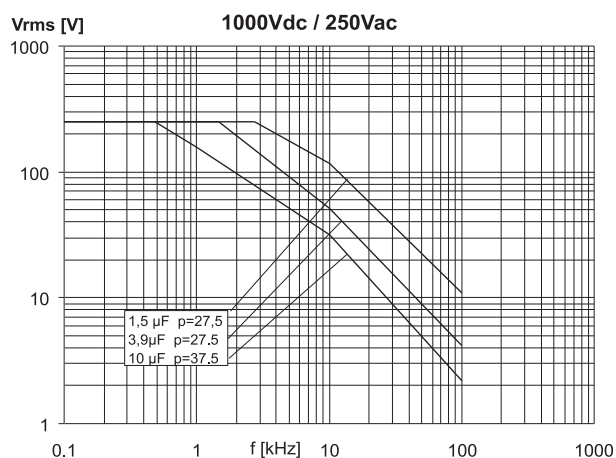
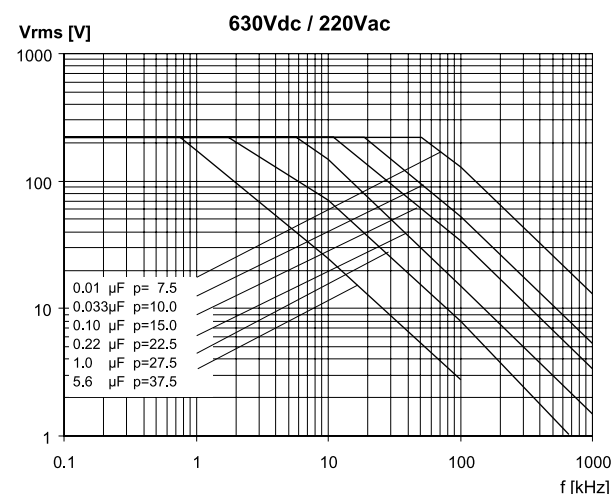
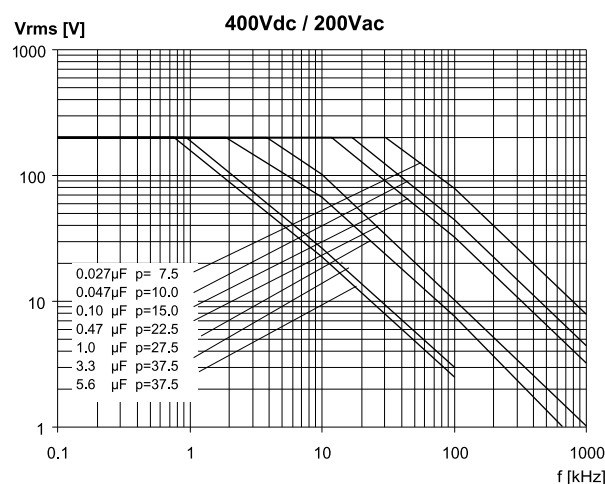
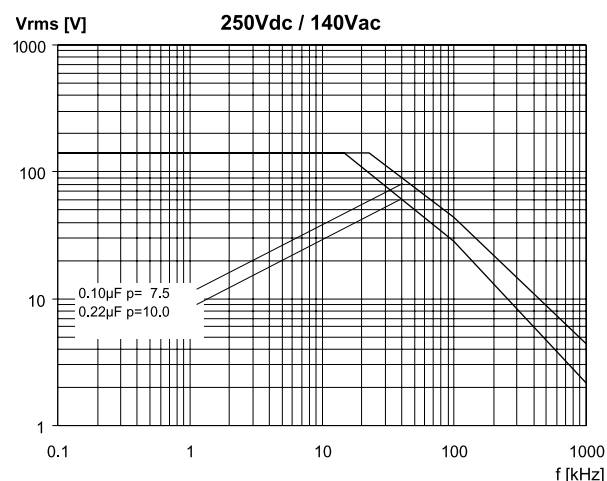
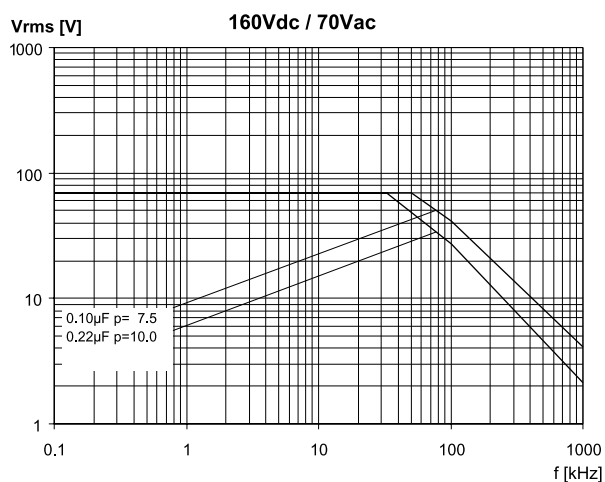
 Capacitance change $|\Delta C/C|$: ≤0.5%

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 / $T_h \leq 40^\circ\text{C}$)



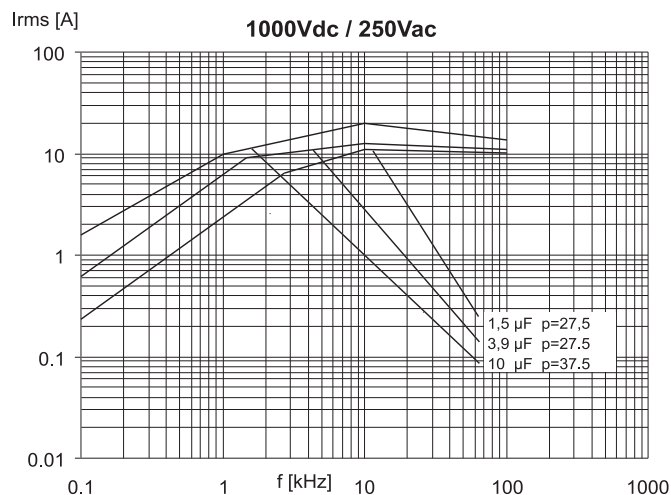
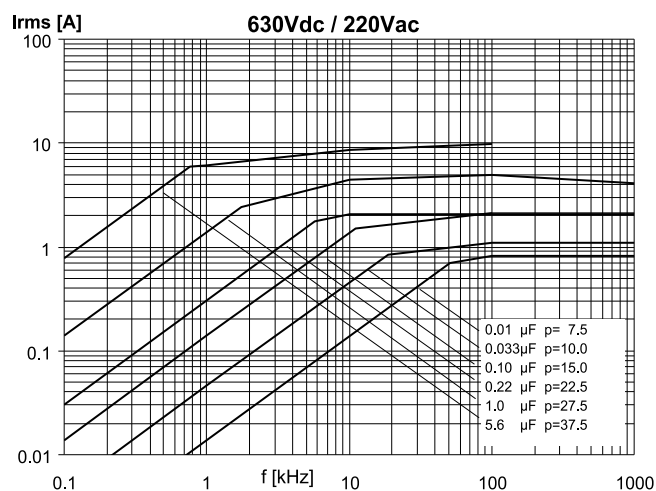
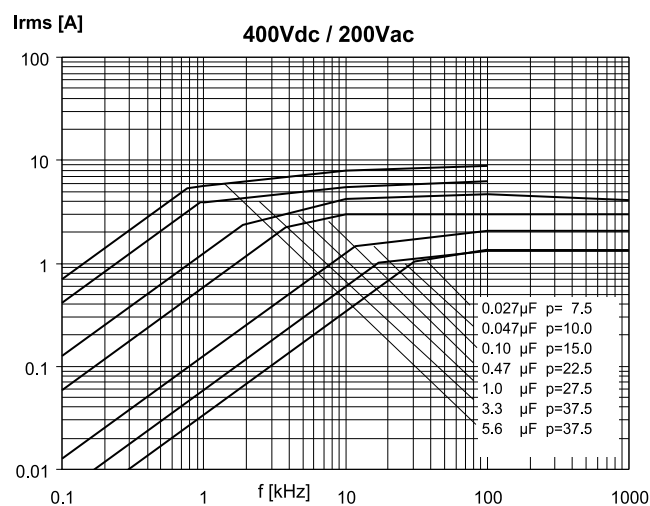
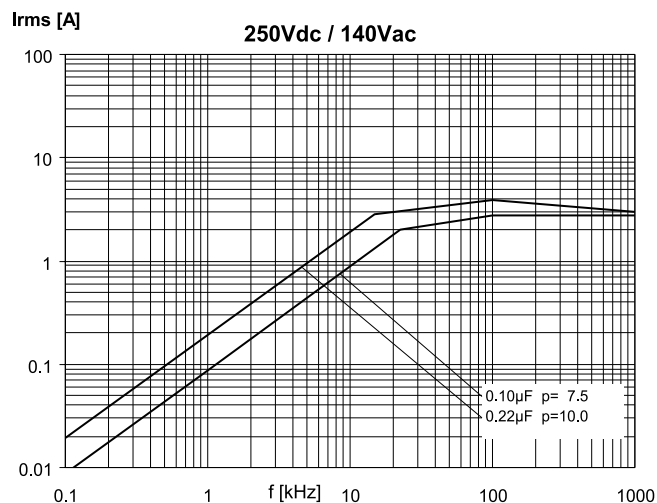
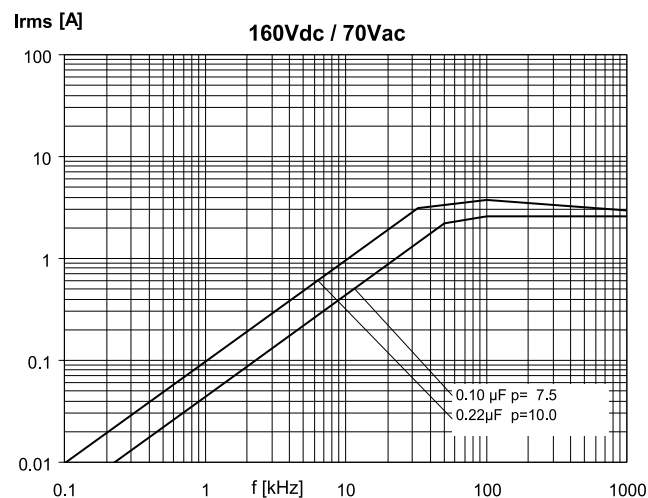
Note: p (pitch) in mm.

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 / $T_h \leq 40^\circ\text{C}$)



Note: p (pitch) in mm.

05/2007