

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

All dimensions are in mm.

PRODUCT CODE SYSTEM

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

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	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%

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

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL ∅ 355mm		6.35	1	7.5	CK
REEL ∅ 355mm		12.70	2	10.0/15.0	GY
REEL ∅ 500mm		12.70	2	10.0/15.0	CK
REEL ∅ 500mm		19.05	3	22.5/27.5	CK
Loose, short leads	4 ⁺²				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.

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, oscillator circuits.

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

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.

Plates: aluminium 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: 55/100/56 IEC 60068-1

Operating temperature range: -55 to +105°C

Related documents: IEC 60384-16

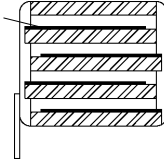
HIGH PERFORMANCES

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

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

single sided metallized
polypropylene film

1 section
(160Vdc)



Rated Cap.	160Vdc / 90Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.068μF	4.0	9.0	10.5	7.5	230	74 E3	R75GD2680--0--
0.082μF	4.0	9.0	10.5	7.5	230	74 E3	R75GD2820--3--
0.10μF	5.0	11.0	10.5	7.5	230	74 E3	R75GD3100--0--
0.12μF	5.0	11.0	10.5	7.5	230	74 E3	R75GD3120--3--
0.15μF	6.0	12.0	10.5	7.5	230	74 E3	R75GD3150--0--
0.18μF	6.0	12.0	10.5	7.5	230	74 E3	R75GD3180--3--
0.082μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 2820--0--
0.10μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 3100--3--
0.12μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3120--0--
0.15μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3150--0--
0.18μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3180--0--
0.22μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3220--3--
0.18μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3180--0--
0.22μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3220--0--
0.27μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3270--0--
0.33μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3330--0--
0.39μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3390--0--
0.47μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3470--0--
0.47μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3470--6--
0.56μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3560--0--
0.56μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3560--6--
0.68μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3680--0--
0.68μF	13.0	12.0	18.0	15.0	100	32 E3	R75GI 3680--6--
0.82μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 3820--0--
1.0μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 4100--0--

Mechanical version and packaging (Table 1)
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

Rated Cap.	160Vdc / 90Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.82μF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 3820--0--
1.0μF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 4100--0--
1.2μF	8.5	17.0	26.5	22.5	60	19 E3	R75GN 4120--0--
1.5μF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4150--0--
1.8μF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4180--0--
2.2μF	10.0	20.0	32.0	27.5	50	16 E3	R75GR 4220--0--
2.7μF	11.0	20.0	32.0	27.5	50	16 E3	R75GR 4270--0--
*3.3μF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4330--0--
*3.9μF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4390--0--
*4.7μF	15.0	24.5	32.0	27.5	50	16 E3	R75GR 4470--0--
*5.6μF	14.0	28.0	32.0	27.5	50	16 E3	R75GR 4560--0--
*6.8μF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4680--0--
*8.2μF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4820--0--
*10.0μF	22.0	37.0	32.0	27.5	50	16 E3	R75GR 5100--0--
12.0μF	19.0	32.0	41.5	37.5	35	11 E3	R75GW5120--0--
15.0μF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5150--0--
18.0μF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5180--0--
22.0μF	24.0	44.0	41.5	37.5	35	11 E3	R75GW5220--0--

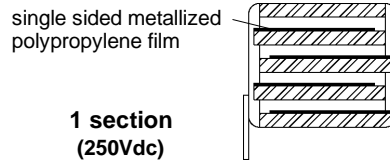
Mechanical version and packaging (Table 1)
Internal use _____
Tolerance: J (±5%); K (±10%); M (±20%) _____

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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

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



Rated Cap.	250Vdc / 160Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.027μF	4.0	9.0	10.5	7.5	300	150 E3	R75ID2270--3--
0.033μF	4.0	9.0	10.5	7.5	300	150 E3	R75ID2330--3--
0.039μF	4.0	9.0	10.5	7.5	300	150 E3	R75ID2390--3--
0.047μF	4.0	9.0	10.5	7.5	300	150 E3	R75ID2470--3--
0.056μF	4.0	9.0	10.5	7.5	300	150 E3	R75ID2560--3--
0.068μF	5.0	11.0	10.5	7.5	300	150 E3	R75ID2680--3--
0.082μF	5.0	11.0	10.5	7.5	300	150 E3	R75ID2820--3--
0.10μF	6.0	12.0	10.5	7.5	300	150 E3	R75ID3100--3--
0.12μF	6.0	12.0	10.5	7.5	300	150 E3	R75ID3120--3--
0.033μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF2330--0--
0.039μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF2390--0--
0.047μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF2470--3--
0.056μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF2560--3--
0.068μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF2680--3--
0.082μF	5.0	11.0	13.0	10.0	280	140 E3	R75IF2820--3--
0.10μF	5.0	11.0	13.0	10.0	280	140 E3	R75IF3100--3--
0.12μF	6.0	12.0	13.0	10.0	280	140 E3	R75IF3120--3--
0.15μF	6.0	12.0	13.0	10.0	280	140 E3	R75IF3150--3--
0.12μF	5.0	11.0	18.0	15.0	200	100 E3	R75II3120--3--
0.15μF	5.0	11.0	18.0	15.0	200	100 E3	R75II3150--3--
0.18μF	5.0	11.0	18.0	15.0	200	100 E3	R75II3180--4--
0.22μF	5.0	11.0	18.0	15.0	200	100 E3	R75II3220--4--
0.27μF	6.0	12.0	18.0	15.0	200	100 E3	R75II3270--4--
0.33μF	6.0	12.0	18.0	15.0	200	100 E3	R75II3330--4--
0.39μF	7.5	13.5	18.0	15.0	200	100 E3	R75II3390--4--
0.39μF	9.0	12.5	18.0	15.0	200	100 E3	R75II3390--7--
0.47μF	7.5	13.5	18.0	15.0	200	100 E3	R75II3470--4--
0.47μF	9.0	12.5	18.0	15.0	200	100 E3	R75II3470--8--
0.56μF	7.5	13.5	18.0	15.0	200	100 E3	R75II3560--4--
0.56μF	9.0	12.5	18.0	15.0	200	100 E3	R75II3560--8--
0.68μF	8.5	14.5	18.0	15.0	200	100 E3	R75II3680--4--
0.68μF	13.0	12.0	18.0	15.0	200	100 E3	R75II3680--8--
0.82μF	10.0	16.0	18.0	15.0	200	100 E3	R75II3820--4--
0.82μF	13.0	12.0	18.0	15.0	200	100 E3	R75II3820--8--
1.0μF	10.0	16.0	18.0	15.0	200	100 E3	R75II4100--4--
1.2μF	11.0	19.0	18.0	15.0	200	100 E3	R75II4120--4--

Mechanical version and packaging (Table 1) _____
 Internal use _____
 Tolerance: J (± 5%); K (± 10%); M (± 20%) _____

Rated Cap.	250Vdc / 160Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.39μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN3390--3--
0.47μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN3470--3--
0.56μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN3560--4--
0.68μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN3680--4--
0.82μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN3820--4--
1.0μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN4100--4--
1.2μF	8.5	17.0	26.5	22.5	125	63 E3	R75IN4120--4--
1.5μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN4150--4--
1.8μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN4180--4--
2.2μF	11.0	20.0	26.5	22.5	125	63 E3	R75IN4220--4--
2.7μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN4270--4--
3.3μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN4330--4--
1.0μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR4100--3--
1.2μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR4120--3--
1.5μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR4150--4--
1.8μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR4180--4--
2.2μF	10.0	20.0	32.0	27.5	100	50 E3	R75IR4220--4--
2.7μF	11.0	20.0	32.0	27.5	100	50 E3	R75IR4270--4--
*3.3μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR4330--4--
*3.9μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR4390--4--
*4.7μF	15.0	24.5	32.0	27.5	100	50 E3	R75IR4470--4--
*5.6μF	14.0	28.0	32.0	27.5	100	50 E3	R75IR4560--4--
*6.8μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR4680--4--
*8.2μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR4820--4--
*10.0μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR5100--4--
*12.0μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR5120--4--
15.0μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5150--4--
18.0μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5180--4--
22.0μF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5220--4--

Mechanical version and packaging (Table 1) _____
 Internal use _____
 Tolerance: J (± 5%); K (± 10%); M (± 20%) _____

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
 The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.
 The dv/dt test is carried out at 2 times the above values.

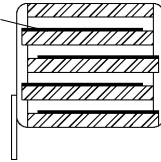
*These values are available in pitch 37.5 mm upon request.

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

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

single sided metallized
 polypropylene film

1 section
(400Vdc)



Rated Cap.	400Vdc / 220Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.010μF	4.0	9.0	10.5	7.5	450	360 E3	R75MD2100--0--
0.012μF	4.0	9.0	10.5	7.5	450	360 E3	R75MD2120--0--
0.015μF	4.0	9.0	10.5	7.5	450	360 E3	R75MD2150--3--
0.018μF	4.0	9.0	10.5	7.5	450	360 E3	R75MD2180--3--
0.022μF	4.0	9.0	10.5	7.5	450	360 E3	R75MD2220--3--
0.027μF	5.0	11.0	10.5	7.5	450	360 E3	R75MD2270--3--
0.033μF	5.0	11.0	10.5	7.5	450	360 E3	R75MD2330--3--
0.039μF	6.0	12.0	10.5	7.5	450	360 E3	R75MD2390--3--
0.047μF	6.0	12.0	10.5	7.5	450	360 E3	R75MD2470--3--
0.015μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2150--0--
0.018μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2180--0--
0.022μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2220--3--
0.027μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2270--3--
0.033μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2330--3--
0.039μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2390--3--
0.047μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2470--3--
0.056μF	6.0	12.0	13.0	10.0	420	336 E3	R75MF 2560--3--
0.068μF	6.0	12.0	13.0	10.0	420	336 E3	R75MF 2680--3--
0.068μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 2680--3--
0.082μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 2820--3--
0.10μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3100--3--
0.12μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3120--3--
0.15μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3150--3--
0.18μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3180--3--
0.22μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3220--3--
0.22μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3220--7--
0.27μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3270--3--
0.27μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3270--7--
0.33μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3330--3--
0.33μF	13.0	12.0	18.0	15.0	300	240 E3	R75MI 3330--7--
0.39μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3390--3--
0.47μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3470--3--
0.56μF	11.0	19.0	18.0	15.0	300	240 E3	R75MI 3560--3--

Rated Cap.	400Vdc / 220Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.18μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3180--3--
0.22μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3220--3--
0.27μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3270--3--
0.33μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3330--3--
0.39μF	7.0	16.0	26.5	22.5	180	144 E3	R75MN 3390--3--
0.47μF	7.0	16.0	26.5	22.5	180	144 E3	R75MN 3470--3--
0.56μF	8.5	17.0	26.5	22.5	180	144 E3	R75MN 3560--3--
0.68μF	10.0	18.5	26.5	22.5	180	144 E3	R75MN 3680--3--
0.82μF	10.0	18.5	26.5	22.5	180	144 E3	R75MN 3820--3--
1.0μF	11.0	20.0	26.5	22.5	180	144 E3	R75MN 4100--3--
1.2μF	13.0	22.0	26.5	22.5	180	144 E3	R75MN 4120--3--
1.5μF	13.0	22.0	26.5	22.5	180	144 E3	R75MN 4150--3--
0.56μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3560--3--
0.68μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3680--3--
0.82μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3820--3--
1.0μF	10.0	20.0	32.0	27.5	130	104 E3	R75MR 4100--3--
*1.2μF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4120--3--
*1.5μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4150--3--
*1.8μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4180--3--
*2.2μF	15.0	24.5	32.0	27.5	130	104 E3	R75MR 4220--3--
*2.7μF	14.0	28.0	32.0	27.5	130	104 E3	R75MR 4270--3--
*3.3μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4330--3--
*3.9μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4390--3--
*4.7μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4470--3--
*5.6μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4560--3--
6.8μF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4680--3--
8.2μF	20.0	40.0	41.5	37.5	70	56 E3	R75MW4820--3--
10μF	24.0	44.0	41.5	37.5	70	56 E3	R75MW5100--3--

Mechanical version and packaging (Table 1)

Internal use

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

Mechanical version and packaging (Table 1)

Internal use

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

All dimensions are in mm.

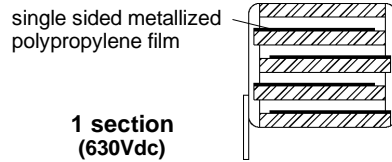
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any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

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

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

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

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



Rated Cap.	630Vdc / 250Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
1000pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1100--0--
1200pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1120--0--
1500pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1150--0--
1800pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1180--0--
2200pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1220--0--
2700pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1270--0--
3300pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1330--0--
3900pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1390--0--
4700pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1470--0--
5600pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1560--3--
6800pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1680--3--
8200pF	4.0	9.0	10.5	7.5	600	760 E3	R75PD1820--3--
0.010μF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2100--3--
0.012μF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2120--3--
0.015μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2150--3--
0.018μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2180--3--
1000pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1100--0--
1200pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1120--0--
1500pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1150--0--
1800pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1180--0--
2200pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1220--0--
2700pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1270--0--
3300pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1330--0--
3900pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1390--0--
4700pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1470--0--
5600pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1560--0--
6800pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1680--0--
8200pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1820--0--
0.010μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 2100--3--
0.012μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 2120--3--
0.015μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF 2150--3--
0.018μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF 2180--3--
0.022μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF 2220--3--
0.027μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF 2270--3--
0.027μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2270--0--
0.033μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2330--0--
0.039μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2390--3--
0.047μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2470--3--
0.056μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2560--3--
0.068μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2680--3--
0.082μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2820--3--
0.10μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3100--3--
0.10μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3100--7--
0.12μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3120--3--
0.12μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3120--7--
0.15μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3150--3--
0.15μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3150--7--
0.18μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3180--3--
0.18μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3180--7--
0.22μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3220--3--
0.27μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3270--3--
0.33μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3330--3--

Mechanical version and packaging (Table 1) _____
 Internal use _____
 Tolerance: J (± 5%); K (± 10%); M (± 20%) _____

Rated Cap.	630Vdc / 250Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.082μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 2820--3--
0.10μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3100--3--
0.12μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3120--3--
0.15μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3150--3--
0.18μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN 3180--3--
0.22μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN 3220--3--
0.27μF	8.5	17.0	26.5	22.5	250	315 E3	R75PN 3270--3--
0.33μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN 3330--3--
0.39μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN 3390--3--
0.47μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN 3470--3--
0.56μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN 3560--3--
0.68μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN 3680--3--
0.39μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3390--0--
0.47μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3470--3--
0.56μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3560--3--
*0.68μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3680--3--
*0.82μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 3820--3--
*1.0μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 4100--3--
*1.2μF	15.0	24.5	32.0	27.5	180	227 E3	R75PR 4120--3--
*1.5μF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4150--3--
*1.8μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4180--3--
*2.2μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4220--3--
*2.7μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4270--3--
*3.3μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4330--3--
3.9μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW 4390--3--
4.7μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW 4470--3--
5.6μF	24.0	44.0	41.5	37.5	90	113 E3	R75PW 4560--3--

Mechanical version and packaging (Table 1) _____
 Internal use _____
 Tolerance: J (± 5%); K (± 10%); M (± 20%) _____

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
 The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table.
 The dv/dt test is carried out at 2 times the above values.

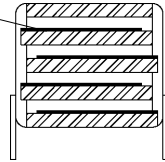
* These values are available in pitch 37.5 mm upon request.

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

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

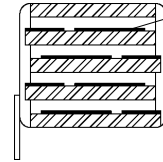
PRODUCT CODE: R75 (Digit 12: 0 to 9)

single sided metallized polypropylene film



**1 section
(1000Vdc)**

single side metallized polypropylene film



**3 sections
(1250Vdc)**

Rated Cap.	1000Vdc / 250Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.012μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2120--0--
0.015μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2150--0--
0.018μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2180--0--
0.022μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2220--0--
0.027μF	6.0	12.0	18.0	15.0	450	900 E3	R75QI 2270--0--
0.033μF	6.0	12.0	18.0	15.0	450	900 E3	R75QI 2330--0--
0.039μF	7.5	13.5	18.0	15.0	450	900 E3	R75QI 2390--0--
0.047μF	7.5	13.5	18.0	15.0	450	900 E3	R75QI 2470--0--
0.047μF	9.0	12.5	18.0	15.0	450	900 E3	R75QI 2470--6--
0.056μF	8.5	14.5	18.0	15.0	450	900 E3	R75QI 2560--0--
0.056μF	9.0	12.5	18.0	15.0	450	900 E3	R75QI 2560--6--
0.068μF	8.5	14.5	18.0	15.0	450	900 E3	R75QI 2680--0--
0.068μF	13.0	12.0	18.0	15.0	450	900 E3	R75QI 2680--6--
0.082μF	10.0	16.0	18.0	15.0	450	900 E3	R75QI 2820--0--
0.10μF	11.0	19.0	18.0	15.0	450	900 E3	R75QI 3100--0--
0.047μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2470--0--
0.056μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2560--0--
0.068μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2680--0--
0.082μF	7.0	16.0	26.5	22.5	300	600 E3	R75QN 2820--0--
0.10μF	7.0	16.0	26.5	22.5	300	600 E3	R75QN 3100--0--
0.12μF	8.5	17.0	26.5	22.5	300	600 E3	R75QN 3120--0--
0.15μF	10.0	18.5	26.5	22.5	300	600 E3	R75QN 3150--0--
0.18μF	10.0	18.5	26.5	22.5	300	600 E3	R75QN 3180--0--
0.22μF	11.0	20.0	26.5	22.5	300	600 E3	R75QN 3220--0--
0.22μF	10.0	20.0	32.0	27.5	200	400 E3	R75QR 3220--0--
*0.27μF	11.0	20.0	32.0	27.5	200	400 E3	R75QR 3270--0--
*0.33μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3330--0--
*0.39μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3390--0--
*0.47μF	15.0	24.5	32.0	27.5	200	400 E3	R75QR 3470--0--
*0.56μF	15.0	24.5	32.0	27.5	200	400 E3	R75QR 3560--0--
*0.68μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3680--0--
*0.82μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3820--0--
*1.0μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 4100--0--
*1.2μF	22.0	37.0	32.0	27.5	200	400 E3	R75QR 4120--0--
1.5μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4150--0--
1.8μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4180--0--
2.2μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4220--0--
2.7μF	24.0	44.0	41.5	37.5	150	300 E3	R75QW4270--0--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (± 5%); K (± 10%); M (± 20%)

Rated Cap.	1250Vdc / 600Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
8200pF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 1820--3--
0.010μF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 2100--3--
0.012μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2120--3--
0.015μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2150--3--
0.018μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2180--3--
0.022μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2220--3--
0.022μF	9.0	12.5	18.0	15.0	3300	825 E4	R75RI 2220--7--
0.027μF	8.5	14.5	18.0	15.0	3300	825 E4	R75RI 2270--3--
0.027μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2270--7--
0.033μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2330--3--
0.033μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2330--7--
0.039μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2390--3--
0.047μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2470--3--
0.056μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2560--3--
0.033μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2330--3--
0.039μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2390--3--
0.047μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2470--3--
0.056μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2560--3--
0.068μF	8.5	17.0	26.5	22.5	2100	525 E4	R75RN 2680--3--
0.082μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 2820--3--
0.10μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 3100--3--
0.12μF	11.0	20.0	26.5	22.5	2100	525 E4	R75RN 3120--3--
0.15μF	13.0	22.0	26.5	22.5	2100	525 E4	R75RN 3150--3--
*0.082μF	10.0	20.0	32.0	27.5	500	125 E4	R75RR 2820--3--
*0.10μF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3100--3--
*0.12μF	13.0	22.0	32.0	27.5	500	125 E4	R75RR 3120--3--
*0.15μF	13.0	22.0	32.0	27.5	500	125 E4	R75RR 3150--3--
*0.18μF	14.0	28.0	32.0	27.5	500	125 E4	R75RR 3180--3--
*0.22μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3220--3--
*0.27μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3270--3--
*0.33μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3330--3--
*0.39μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3390--3--
*0.47μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3470--3--
0.56μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW3560--3--
0.68μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW3680--3--
0.82μF	24.0	44.0	41.5	37.5	360	125 E4	R75RW3820--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (± 5%); K (± 10%); M (± 20%)

All dimensions are in mm.

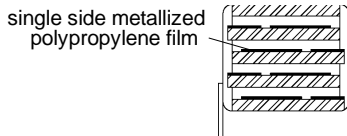
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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

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

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

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



Rated Cap.	1600Vdc / 650Vac					Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number	
	B	H	L	p					
5600pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI	1560--3--	
6800pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI	1680--3--	
8200pF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI	1820--3--	
0.010μF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI	2100--3--	
0.012μF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI	2120--3--	
0.015μF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI	2150--3--	
0.018μF	8.5	14.5	18.0	15.0	6000	1900 E4	R75TI	2180--3--	
0.018μF	9.0	12.5	18.0	15.0	6000	1900 E4	R75TI	2180--7--	
0.022μF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI	2220--3--	
0.022μF	13.0	12.0	18.0	15.0	6000	1900 E4	R75TI	2220--7--	
0.027μF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI	2270--3--	
0.033μF	11.0	19.0	18.0	15.0	6000	1900 E4	R75TI	2330--3--	
0.027μF	6.0	15.0	26.5	22.5	3000	960 E4	R75TN	2270--3--	
0.033μF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN	2330--3--	
0.039μF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN	2390--3--	
0.047μF	8.5	17.0	26.5	22.5	3000	960 E4	R75TN	2470--3--	
0.056μF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN	2560--3--	
0.068μF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN	2680--3--	
0.082μF	11.0	20.0	26.5	22.5	3000	960 E4	R75TN	2820--3--	
0.10μF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN	3100--3--	
0.12μF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN	3120--3--	
0.068μF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR	2680--3--	
0.082μF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR	2820--3--	
0.10μF	10.0	20.0	32.0	27.5	1500	480 E4	R75TR	3100--3--	
0.12μF	11.0	20.0	32.0	27.5	1500	480 E4	R75TR	3120--3--	
0.15μF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR	3150--3--	
0.18μF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR	3180--3--	
0.22μF	15.0	24.5	32.0	27.5	1500	480 E4	R75TR	3220--3--	
0.27μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR	3270--3--	
0.33μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR	3330--3--	
0.39μF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR	3390--3--	
0.47μF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR	3470--3--	
0.56μF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR	3560--3--	
0.18μF	11.0	22.0	41.5	37.5	750	240 E4	R75TW	3180--3--	
0.22μF	11.0	22.0	41.5	37.5	750	240 E4	R75TW	3220--3--	
0.27μF	13.0	24.0	41.5	37.5	750	240 E4	R75TW	3270--3--	
0.33μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW	3330--3--	
0.39μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW	3390--3--	
0.47μF	16.0	28.5	41.5	37.5	750	240 E4	R75TW	3470--3--	
0.56μF	19.0	32.0	41.5	37.5	750	240 E4	R75TW	3560--3--	
0.68μF	20.0	40.0	41.5	37.5	750	240 E4	R75TW	3680--3--	
0.82μF	20.0	40.0	41.5	37.5	750	240 E4	R75TW	3820--3--	
1.0μF	20.0	40.0	41.5	37.5	750	240 E4	R75TW	4100--3--	
1.2μF	24.0	44.0	41.5	37.5	750	240 E4	R75TW	4120--3--	

Mechanical version and packaging (Table 1)

Internal use

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

All dimensions are in mm.

Note:

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

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

Rated Cap.	2000Vdc / 700Vac					Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number	
	B	H	L	p					
1000pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1100--3--	
1200pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1120--3--	
1500pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1150--3--	
1800pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1180--3--	
2200pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1220--3--	
2700pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1270--3--	
3300pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1330--3--	
3900pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1390--3--	
4700pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI	1470--3--	
5600pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI	1560--3--	
6800pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI	1680--3--	
8200pF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI	1820--3--	
0.010μF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI	2100--3--	
0.012μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI	2120--3--	
0.012μF	9.0	12.5	18.0	15.0	9500	3800 E4	R75UI	2120--7--	
0.015μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI	2150--3--	
0.015μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI	2150--7--	
0.018μF	10.0	16.0	18.0	15.0	9500	3800 E4	R75UI	2180--3--	
0.018μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI	2180--7--	
0.022μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI	2220--3--	
0.027μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI	2270--3--	
4700pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	1470--3--	
5600pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	1560--3--	
6800pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	1680--3--	
8200pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	1820--3--	
0.010μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	2100--3--	
0.012μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	2120--3--	
0.015μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	2150--3--	
0.018μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	2180--3--	
0.022μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN	2220--3--	
0.027μF	7.0	16.0	26.5	22.5	3500	1400 E4	R75UN	2270--3--	
0.033μF	8.5	17.0	26.5	22.5	3500	1400 E4	R75UN	2330--3--	
0.039μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN	2390--3--	
0.047μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN	2470--3--	
0.056μF	11.0	20.0	26.5	22.5	3500	1400 E4	R75UN	2560--3--	
0.068μF	13.0	22.0	26.5	22.5	3500	1400 E4	R75UN	2680--3--	
0.047μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR	2470--3--	
0.056μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR	2560--3--	
0.068μF	10.0	20.0	32.0	27.5	1000	400 E4	R75UR	2680--3--	
0.082μF	10.0	20.0	32.0	27.5	1000	400 E4	R75UR	2820--3--	
0.10μF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR	3100--3--	
0.12μF	13.0	22.0	32.0	27.5	1000	400 E4	R75UR	3120--3--	
0.15μF	15.0	24.5	32.0	27.5	1000	400 E4	R75UR	3150--3--	
0.18μF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR	3180--3--	
0.22μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR	3220--3--	
0.27μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR	3270--3--	
0.33μF	22.0	37.0	32.0	27.5	1000	400 E4	R75UR	3330--3--	
0.39μF	22.0	37.0	32.0	27.5	1000	400 E4	R75UR	3390--3--	
0.15μF	11.0	22.0	41.5	37.5	500	200 E4	R75UW	3150--3--	
0.18μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW	3180--3--	
0.22μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW	3220--3--	
0.27μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW	3270--3--	
0.33μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW	3330--3--	
0.39μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW	3390--3--	
0.47μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW	3470--3--	
0.56μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW	3560--3--	
0.68μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW	3680--3--	
0.82μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW	3820--3--	

Mechanical version and packaging (Table 1)

Internal use

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

HIGH PERFORMANCES

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

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

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 22µF for 1 section.

1000 pF to 0.82µF 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) ≈	8	9	10	18	18	20

Dissipation factor (DF):

tgδ × 10⁻⁴ at +25°C ±5°C

kHz	C ≤ 0.1µF	0.1 < C ≤ 1.0µF	1 < C ≤ 4.7µF	C > 4.7µF
1	≤ 4	≤ 5	≤ 6	≤ 10
10	≤ 6	≤ 8		
100	≤ 25			

Insulation resistance:

Test conditions

Temperature: +25°C ±5°C

Voltage charge time: 1 min

Voltage charge: 100Vdc

Performance

≥ 1 × 10⁵ MΩ for C ≤ 0.33µF (5 × 10⁵ MΩ)*

≥ 30000 s for C > 0.33µF (150000 s)*

* Typical value.

Test voltage between terminations:

1.6 × 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 |ΔC/C|: ≤ 2%

DF change (Δtgδ): ≤ 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 × V_R

Performance

Capacitance change |ΔC/C|: ≤ 3%

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

≤ 10 × 10⁻⁴ 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): ≤ 10 × 10⁻⁴ at 10kHz for C ≤ 1µF

≤ 10 × 10⁻⁴ at 1kHz for C > 1µF

Insulation resistance: ≥ initial limit.

Long term stability (after two years):

Storage: standard environmental conditions (see page 11).

Performance

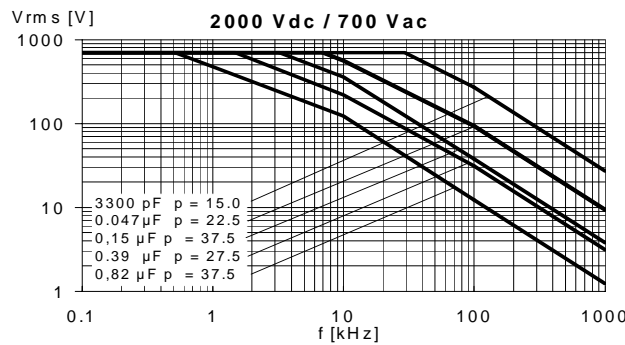
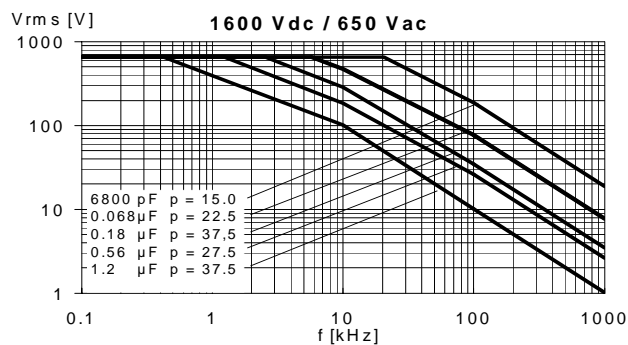
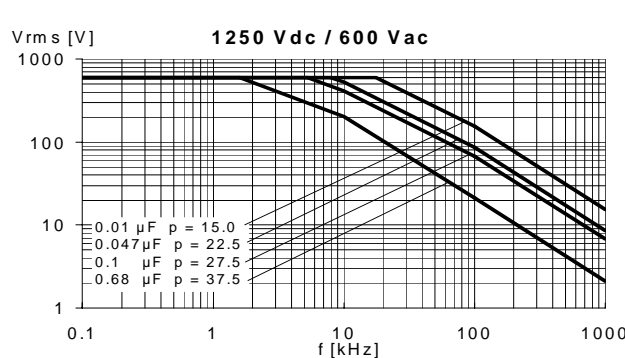
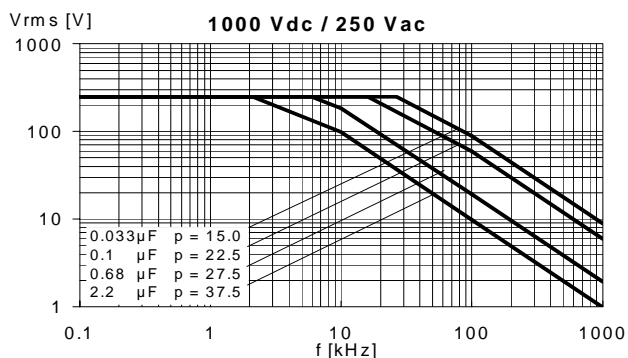
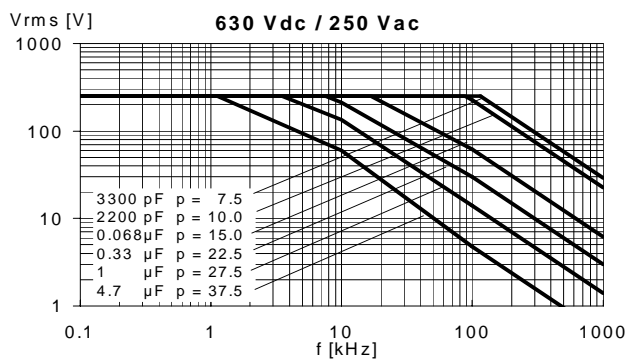
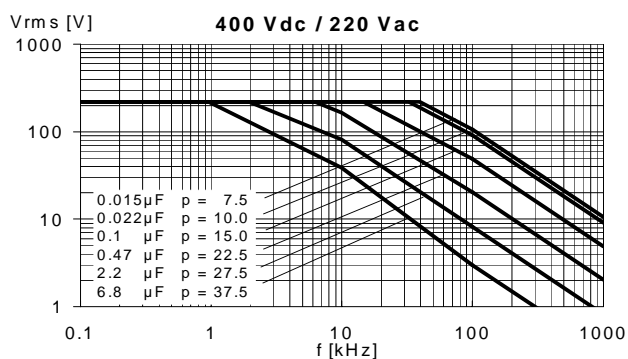
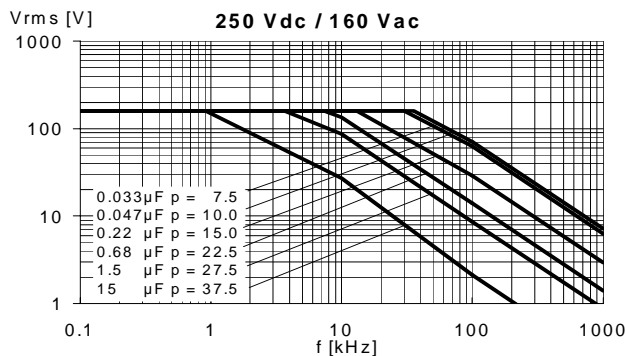
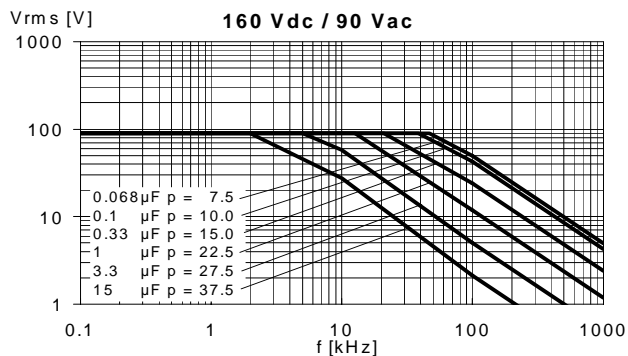
Capacitance change |ΔC/C|: ≤ 0.5%

HIGH PERFORMANCES

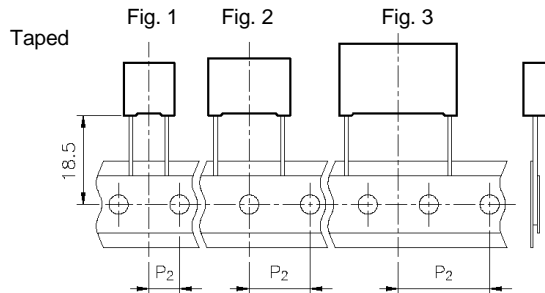
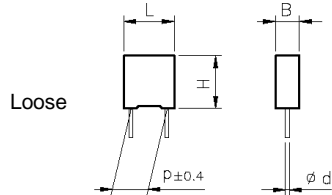
METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

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

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



p (pitch) in mm



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

*Except for box ≥ 10x16x18 having ∅d = 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

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%

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)**

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.

Plates: metal layer deposited by evaporation under vacuum.

Winding: non-inductive type.

Leads: tinned wire.

Protection: plastic case, epoxy 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: 55/100/56 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 15 and 16).

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL ∅ 355mm		6.35	1	7.5	CK
REEL ∅ 355mm		12.70	2	10.0/15.0	GY
REEL ∅ 500mm		12.70	2	10.0/15.0	CK
REEL ∅ 500mm		19.05	3	22.5/27.5	CK
Loose, short leads	4 ⁺²				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.

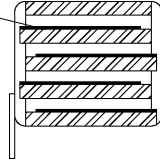
REDUCED SIZES

METALLIZED POLYPROPYLENE FILM CAPACITOR
D.C. AND PULSE APPLICATIONS

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

single sided metallized polypropylene film

1 section
(160Vdc - 250Vdc)



Rated Cap.	160Vdc / 70Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.10μF	4.0	9.0	10.5	7.5	100	32 E3	R75GD3100--A--
0.12μF	5.0	11.0	10.5	7.5	100	32 E3	R75GD3120--A--
0.15μF	5.0	11.0	10.5	7.5	100	32 E3	R75GD3150--A--
0.18μF	6.0	12.0	10.5	7.5	100	32 E3	R75GD3180--A--
0.22μF	6.0	12.0	10.5	7.5	100	32 E3	R75GD3220--A--
0.12μF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3120--A--
0.15μF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3150--A--
0.18μF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3180--A--
0.22μF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3220--A--
0.27μF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3270--A--
0.33μF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3330--A--

Mechanical version and packaging (Table 1)

Internal use

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

Rated Cap.	250Vdc / 140Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.068μF	4.0	9.0	10.5	7.5	180	90 E3	R75ID2680--A--
0.082μF	4.0	9.0	10.5	7.5	180	90 E3	R75ID2820--A--
0.10μF	5.0	11.0	10.5	7.5	180	90 E3	R75ID3100--A--
0.12μF	5.0	11.0	10.5	7.5	180	90 E3	R75ID3120--A--
0.15μF	6.0	12.0	10.5	7.5	180	90 E3	R75ID3150--A--
0.18μF	6.0	12.0	10.5	7.5	180	90 E3	R75ID3180--A--
0.082μF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 2820--A--
0.10μF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 3100--A--
0.12μF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3120--A--
0.15μF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3150--A--
0.18μF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3180--A--
0.22μF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3220--A--

Mechanical version and packaging (Table 1)

Internal use

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

All dimensions are in mm.

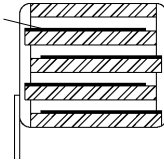
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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
(400Vdc)

Rated Cap.	400Vdc / 200Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.027μF	4.0	9.0	10.5	7.5	390	312 E3	R75MD2270--A--
0.033μF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2330--A--
0.039μF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2390--A--
0.047μF	5.0	11.0	10.5	7.5	390	312 E3	R75MD2470--A--
0.056μF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2560--A--
0.068μF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2680--A--
0.022μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2220--M--
0.027μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2270--M--
0.033μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2330--M--
0.039μF	4.0	9.0	13.0	10.0	350	280 E3	R75MF 2390--M--
0.047μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2470--M--
0.056μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2560--M--
0.068μF	5.0	11.0	13.0	10.0	350	280 E3	R75MF 2680--M--
0.082μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 2820--M--
0.10μF	6.0	12.0	13.0	10.0	350	280 E3	R75MF 3100--M--
0.10μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3100--M--
0.12μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3120--M--
0.15μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3150--M--
0.18μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3180--M--
0.22μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3220--M--
0.27μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3270--M--
0.33μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3330--M--
0.33μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3330--N--
0.39μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3390--M--
0.47μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3470--M--
0.47μF	13.0	12.0	18.0	15.0	300	240 E3	R75MI 3470--N--
0.56μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3560--M--
0.68μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3680--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (± 5%); K (± 10%); M (± 20%)

Rated Cap.	400Vdc / 200Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.27μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3270--M--
0.33μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3330--M--
0.39μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3390--M--
0.47μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3470--M--
0.56μF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3560--M--
0.68μF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3680--M--
0.82μF	8.5	17.0	26.5	22.5	200	160 E3	R75MN 3820--M--
1.0μF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4100--M--
1.2μF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4120--M--
1.5μF	11.0	20.0	26.5	22.5	200	160 E3	R75MN 4150--M--
1.8μF	13.0	22.0	26.5	22.5	200	160 E3	R75MN 4180--M--
0.68μF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 3680--M--
0.82μF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 3820--M--
1.0μF	9.0	17.0	32.0	27.5	125	100 E3	R75MR 4100--M--
1.2μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4120--M--
1.5μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4150--M--
1.8μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4180--M--
2.2μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4220--M--
2.7μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4270--M--
3.3μF	14.0	28.0	32.0	27.5	100	80 E3	R75MR 4330--M--
3.9μF	14.0	28.0	32.0	27.5	100	80 E3	R75MR 4390--M--
4.7μF	18.0	33.0	32.0	27.5	100	80 E3	R75MR 4470--M--
2.2μF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4220--M--
2.7μF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4270--M--
3.3μF	11.0	22.0	41.5	37.5	100	80 E3	R75MW4330--M--
3.9μF	13.0	24.0	41.5	37.5	100	80 E3	R75MW4390--M--
4.7μF	16.0	28.5	41.5	37.5	100	80 E3	R75MW4470--M--
5.6μF	16.0	28.5	41.5	37.5	40	32 E3	R75MW4560--M--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: J (± 5%); K (± 10%); M (± 20%)

All dimensions are in mm.

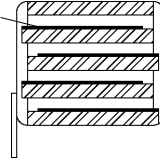
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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
(630Vdc)

Rated Cap.	630Vdc / 220Vac*				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.010μF	4.0	9.0	10.5	7.5	600	760 E3	R75PD2100--A--
0.012μF	4.0	9.0	10.5	7.5	600	760 E3	R75PD2120--A--
0.015μF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2150--A--
0.018μF	5.0	11.0	10.5	7.5	600	760 E3	R75PD2180--A--
0.022μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2220--A--
0.027μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2270--A--
0.010μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2100--M--
0.012μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2120--M--
0.015μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2150--M--
0.018μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF2180--M--
0.022μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2220--M--
0.027μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2270--M--
0.033μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF2330--M--
0.039μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2390--M--
0.047μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2470--M--
0.056μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2560--M--
0.068μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF2680--M--
0.010μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2100--M--
0.012μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2120--M--
0.015μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2150--M--
0.018μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2180--M--
0.022μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2220--M--
0.027μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2270--M--
0.033μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2330--M--
0.039μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2390--M--
0.047μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2470--M--
0.056μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2560--M--
0.068μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2680--M--
0.082μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2820--M--
0.10μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 3100--M--
0.12μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3120--M--
0.15μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3150--M--
0.18μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3180--M--
0.22μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3220--M--
0.22μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3220--N--
0.27μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3270--M--
0.33μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3330--M--
0.33μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3330--N--
0.39μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3390--M--
0.47μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3470--M--

Rated Cap.	630Vdc / 220Vac*				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	p			
0.15μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3150--M--
0.18μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3180--M--
0.22μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3220--M--
0.27μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3270--M--
0.33μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3330--M--
0.39μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3390--M--
0.47μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3470--M--
0.56μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3560--M--
0.68μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN3680--M--
0.82μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN3820--M--
1.0μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN4100--M--
0.47μF	9.0	17.0	32.0	27.5	130	160 E3	R75PR3470--M--
0.56μF	9.0	17.0	32.0	27.5	130	160 E3	R75PR3560--M--
0.68μF	10.0	20.0	32.0	27.5	130	160 E3	R75PR3680--M--
0.82μF	11.0	20.0	32.0	27.5	130	160 E3	R75PR3820--M--
1.0μF	11.0	20.0	32.0	27.5	130	160 E3	R75PR4100--M--
1.2μF	13.0	22.0	32.0	27.5	130	160 E3	R75PR4120--M--
1.5μF	15.0	24.0	32.0	27.5	130	160 E3	R75PR4150--M--
1.8μF	14.0	28.0	32.0	27.5	130	160 E3	R75PR4180--M--
2.2μF	18.0	33.0	32.0	27.5	130	160 E3	R75PR4220--M--
2.7μF	18.0	33.0	32.0	27.5	130	160 E3	R75PR4270--M--
3.3μF	22.0	37.0	32.0	27.5	130	160 E3	R75PR4330--M--
3.9μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4390--M--
4.7μF	22.0	37.0	32.0	27.5	100	126 E3	R75PR4470--M--
1.5μF	11.0	22.0	41.5	37.5	130	160 E3	R75PW4150--M--
1.8μF	11.0	22.0	41.5	37.5	130	160 E3	R75PW4180--M--
2.2μF	13.0	24.0	41.5	37.5	130	160 E3	R75PW4220--M--
2.7μF	16.0	28.5	41.5	37.5	130	160 E3	R75PW4270--M--
3.3μF	16.0	28.5	41.5	37.5	130	160 E3	R75PW4330--M--
3.9μF	19.0	32.0	41.5	37.5	100	126 E3	R75PW4390--M--
4.7μF	19.0	32.0	41.5	37.5	100	126 E3	R75PW4470--M--
5.6μF	20.0	40.0	41.5	37.5	100	126 E3	R75PW4560--M--

Mechanical version and packaging (Table 1)

Internal use

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

Mechanical version and packaging (Table 1)

Internal use

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

All dimensions are in mm.

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

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

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

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.

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 4.7µF

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	$C \leq 0.1\mu\text{F}$	$0.1 < C \leq 1.0\mu\text{F}$	$1 < C \leq 4.7\mu\text{F}$
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

≥ $1 \times 10^5 \text{ M}\Omega$ for $C \leq 0.33\mu\text{F}$ ($5 \times 10^5 \text{ M}\Omega$)*

≥ 30000 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 $C > 1\mu\text{F}$

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 $C > 1\mu\text{F}$

Insulation resistance: ≥ initial limit.

Long term stability (after two years):

Storage: standard environmental conditions (see page 11).

Performance

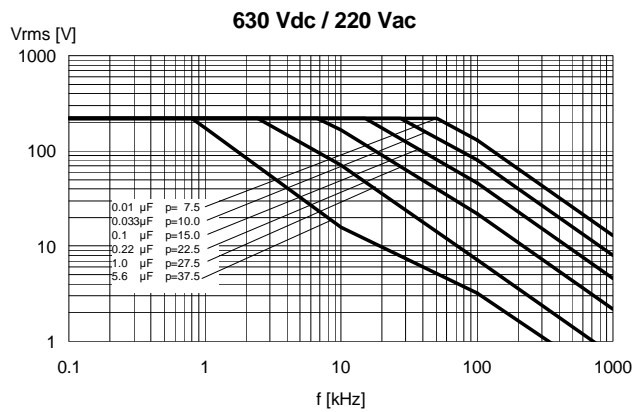
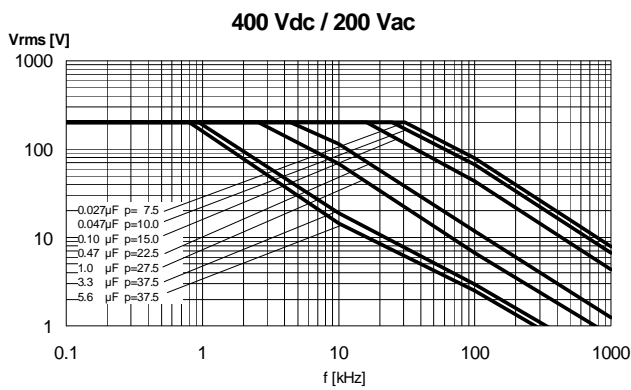
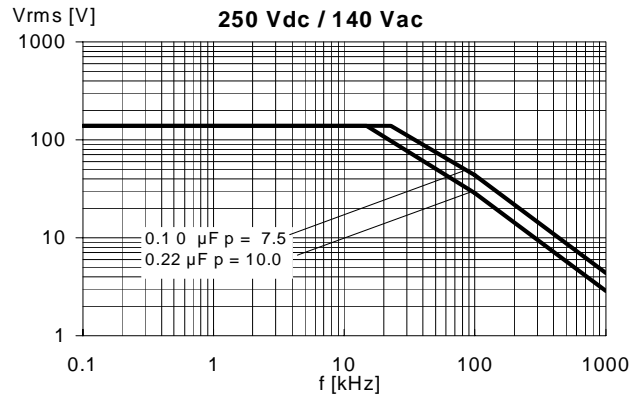
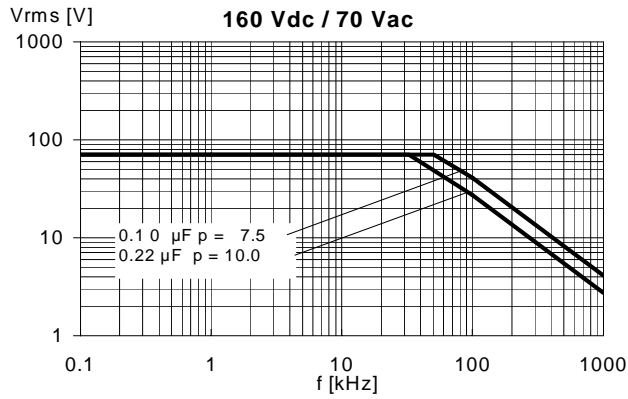
Capacitance change $|\Delta C/C|$: ≤ 0.5%

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.