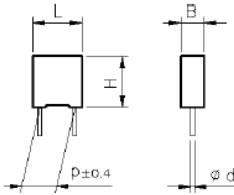
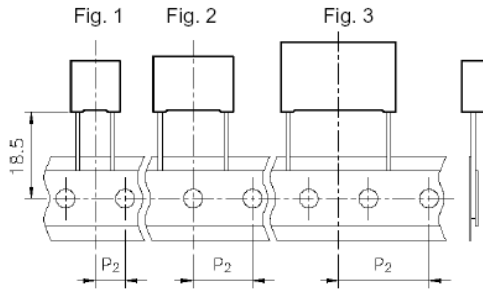


Bulk



Taped

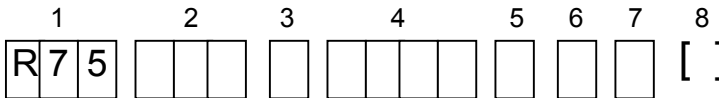


Ød ± 0.05	p ≤ 10	15 ≤ p ≤ 27.5	p = 37.5
	0.6	0.8	1.0

	Fig. 1	Fig. 2	Fig. 3
P ₂	6.35	12.70	19.05

All dimensions are in mm.

PART NUMBERING SYSTEM



- Series code
- Capacitance value in pico farads. First 2 digits are significant and 3rd digit indicates number of zeros.
- Capacitance tolerance
J = 5% K = 10% M = 20%
- D.C. voltage
- Packaging code
B = bulk A = ammo R = reel
- Lead spacing (mm)
D = 7.5 F = 10.0 I = 15.0
N = 22.5 R = 27.5 W = 37.5
- Lead length (mm) – (Applies to bulk packaging only. Omit for standard lead length 4-6mm.)
L = 24-27 T = 3.5-4.0 V = 2.7-3.3
- Internal code

METALLIZED POLYPROPYLENE FILM CAPACITOR

D.C. and PULSE APPLICATIONS

Typical application: 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.

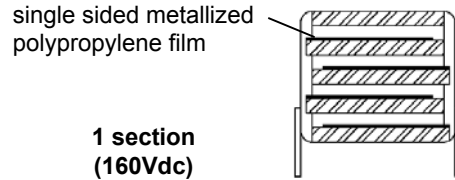
SERIES CODE: R75

GENERAL TECHNICAL DATA

- Dielectric:** polypropylene film
Plates: aluminum 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; CECC 31200

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

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75



Rated Cap.	160Vdc/90Vac				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	100	32 E3	R75273-160-D-
0.033μF	4.0	9.0	10.5	7.5	100	32 E3	R75333-160-D-
0.039μF	4.0	9.0	10.5	7.5	100	32 E3	R75393-160-D-
0.047μF	4.0	9.0	10.5	7.5	100	32 E3	R75473-160-D-
0.056μF	4.0	9.0	10.5	7.5	100	32 E3	R75563-160-D-
0.068μF	4.0	9.0	10.5	7.5	100	32 E3	R75683-160-D-
0.082μF	5.0	11.0	10.5	7.5	100	32 E3	R75823-160-D-
0.10μF	5.0	11.0	10.5	7.5	100	32 E3	R75104-160-D-
0.12μF	6.0	12.0	10.5	7.5	100	32 E3	R75124-160-D-
0.15μF	6.0	12.0	10.5	7.5	100	32 E3	R75154-160-D-
0.047μF	4.0	9.0	13.0	10.0	80	25 E3	R75473-160-F-
0.056μF	4.0	9.0	13.0	10.0	80	25 E3	R75563-160-F-
0.068μF	4.0	9.0	13.0	10.0	80	25 E3	R75683-160-F-
0.082μF	4.0	9.0	13.0	10.0	80	25 E3	R75823-160-F-
0.10μF	5.0	11.0	13.0	10.0	80	25 E3	R75104-160-F-
0.12μF	5.0	11.0	13.0	10.0	80	25 E3	R75124-160-F-
0.15μF	5.0	11.0	13.0	10.0	80	25 E3	R75154-160-F-
0.18μF	6.0	12.0	13.0	10.0	80	25 E3	R75184-160-F-
0.18μF	5.0	11.0	18.0	15.0	100	32 E3	R75184-160-I-
0.22μF	5.0	11.0	18.0	15.0	100	32 E3	R75224-160-I-
0.27μF	6.0	12.0	18.0	15.0	100	32 E3	R75274-160-I-
0.33μF	6.0	12.0	18.0	15.0	100	32 E3	R75334-160-I-
0.39μF	7.5	13.5	18.0	15.0	100	32 E3	R75394-160-I-
0.47μF	7.5	13.5	18.0	15.0	100	32 E3	R75474-160-I-
0.56μF	8.5	14.5	18.0	15.0	100	32 E3	R75564-160-I-
0.68μF	8.5	14.5	18.0	15.0	100	32 E3	R75684-160-I-

Tolerance: J (± 5%); K (±10%); M (±20%) _____
 Packaging code: B (bulk); A (ammo); R (reel) _____
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3) _____
 Omit for standard (4-6) _____

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	R75824-160-N-
1.0μF	7.0	16.0	26.5	22.5	60	19 E3	R75105-160-N-
1.2μF	8.5	17.0	26.5	22.5	60	19 E3	R75125-160-N-
1.5μF	10.0	18.5	26.5	22.5	60	19 E3	R75155-160-N-
1.8μF	10.0	18.5	26.5	22.5	60	19 E3	R75185-160-N-
2.2μF	10.0	20.0	32.0	27.5	50	16 E3	R75225-160-R-
2.7μF	11.0	20.0	32.0	27.5	50	16 E3	R75275-160-R-
*3.3μF	13.0	22.0	32.0	27.5	50	16 E3	R75335-160-R-
*3.9μF	13.0	22.0	32.0	27.5	50	16 E3	R75395-160-R-
*4.7μF	15.0	24.5	32.0	27.5	50	16 E3	R75475-160-R-
*5.6μF	14.0	28.0	32.0	27.5	50	16 E3	R75565-160-R-
*6.8μF	18.0	33.0	32.0	27.5	50	16 E3	R75685-160-R-
*8.2μF	18.0	33.0	32.0	27.5	50	16 E3	R75825-160-R-
*10.0μF	22.0	37.0	32.0	27.5	50	16 E3	R75106-160-R-
12.0μF	19.0	32.0	41.5	37.5	35	11 E3	R75126-160-W-
15.0μF	20.0	40.0	41.5	37.5	35	11 E3	R75156-160-W-
18.0μF	20.0	40.0	41.5	37.5	35	11 E3	R75186-160-W-
22.0μF	24.0	44.0	41.5	37.5	35	11 E3	R75226-160-W-

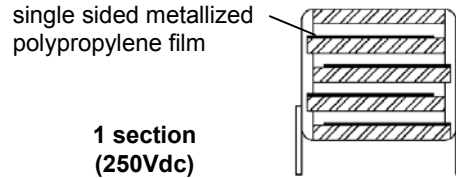
Tolerance: J (± 5%); K (±10%); M (±20%) _____
 Packaging code: B (bulk); A (ammo); R (reel) _____
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3) _____
 Omit for standard (4-6) _____

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

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 waveform and in any case it cannot exceed the value given in the above table. The dv/dt test is carried out at 2 times the above values.

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75



Rated Cap.	250Vdc/160Vac				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	P			
0.015μF	4.0	9.0	10.5	7.5	225	115 E3	R75153-250-D-
0.018μF	4.0	9.0	10.5	7.5	225	115 E3	R75183-250-D-
0.022μF	4.0	9.0	10.5	7.5	225	115 E3	R75223-250-D-
0.027μF	5.0	11.0	10.5	7.5	225	115 E3	R75273-250-D-
0.033μF	5.0	11.0	10.5	7.5	225	115 E3	R75333-250-D-
0.039μF	6.0	12.0	10.5	7.5	225	115 E3	R75393-250-D-
0.047μF	6.0	12.0	10.5	7.5	225	115 E3	R75473-250-D-
0.056μF	6.0	12.0	10.5	7.5	225	115 E3	R75563-250-D-
0.022μF	4.0	9.0	13.0	10.0	125	65 E3	R75223-250-F-
0.027μF	4.0	9.0	13.0	10.0	125	65 E3	R75273-250-F-
0.033μF	4.0	9.0	13.0	10.0	125	65 E3	R75333-250-F-
0.039μF	4.0	9.0	13.0	10.0	125	65 E3	R75393-250-F-
0.047μF	5.0	11.0	13.0	10.0	125	65 E3	R75473-250-F-
0.056μF	5.0	11.0	13.0	10.0	125	65 E3	R75563-250-F-
0.068μF	6.0	12.0	13.0	10.0	125	65 E3	R75683-250-F-
0.082μF	6.0	12.0	13.0	10.0	125	65 E3	R75823-250-F-
0.10μF	6.0	12.0	13.0	10.0	125	65 E3	R75104-250-F-
0.12μF	5.0	11.0	18.0	15.0	200	100 E3	R75124-250-I-
0.15μF	5.0	11.0	18.0	15.0	200	100 E3	R75154-250-I-
0.18μF	5.0	11.0	18.0	15.0	200	100 E3	R75184-250-I-
0.22μF	5.0	11.0	18.0	15.0	200	100 E3	R75224-250-I-
0.27μF	6.0	12.0	18.0	15.0	200	100 E3	R75274-250-I-
0.33μF	6.0	12.0	18.0	15.0	200	100 E3	R75334-250-I-
0.39μF	7.5	13.5	18.0	15.0	200	100 E3	R75394-250-I-
0.47μF	7.5	13.5	18.0	15.0	200	100 E3	R75474-250-I-
0.56μF	7.5	13.5	18.0	15.0	200	100 E3	R75564-250-I-
0.68μF	8.5	14.5	18.0	15.0	200	100 E3	R75684-250-I-
0.82μF	10.0	16.0	18.0	15.0	200	100 E3	R75824-250-I-
1.0μF	10.0	16.0	18.0	15.0	200	100 E3	R75105-250-I-

Tolerance: J (± 5%); K (±10%); M (±20%)
 Packaging code: B (bulk); A (ammo); R (reel)
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)
 Omit for standard (4-6)

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	R75394-250-N-
0.47μF	6.0	15.0	26.5	22.5	125	63 E3	R75474-250-N-
0.56μF	6.0	15.0	26.5	22.5	125	63 E3	R75564-250-N-
0.68μF	6.0	15.0	26.5	22.5	125	63 E3	R75684-250-N-
0.82μF	7.0	16.0	26.5	22.5	125	63 E3	R75824-250-N-
1.0μF	7.0	16.0	26.5	22.5	125	63 E3	R75105-250-N-
1.2μF	8.5	17.0	26.5	22.5	125	63 E3	R75125-250-N-
1.5μF	10.0	18.5	26.5	22.5	125	63 E3	R75155-250-N-
1.8μF	10.0	18.5	26.5	22.5	125	63 E3	R75185-250-N-
2.2μF	11.0	20.0	26.5	22.5	125	63 E3	R75225-250-N-
1.2μF	9.0	17.0	32.0	27.5	100	50 E3	R75125-250-R-
1.5μF	9.0	17.0	32.0	27.5	100	50 E3	R75155-250-R-
1.8μF	9.0	17.0	32.0	27.5	100	50 E3	R75185-250-R-
2.2μF	10.0	20.0	32.0	27.5	100	50 E3	R75225-250-R-
2.7μF	11.0	20.0	32.0	27.5	100	50 E3	R75275-250-R-
*3.3μF	13.0	22.0	32.0	27.5	100	50 E3	R75335-250-R-
*3.9μF	13.0	22.0	32.0	27.5	100	50 E3	R75395-250-R-
*4.7μF	15.0	24.5	32.0	27.5	100	50 E3	R75475-250-R-
*5.6μF	14.0	28.0	32.0	27.5	100	50 E3	R75565-250-R-
*6.8μF	18.0	33.0	32.0	27.5	100	50 E3	R75685-250-R-
*8.2μF	18.0	33.0	32.0	27.5	100	50 E3	R75825-250-R-
*10.0μF	22.0	37.0	32.0	27.5	100	50 E3	R75106-250-R-
*12.0μF	22.0	37.0	32.0	27.5	100	50 E3	R75126-250-R-
15.0μF	20.0	40.0	41.5	37.5	35	50 E3	R75156-250-W-
18.0μF	20.0	40.0	41.5	37.5	35	50 E3	R75186-250-W-
22.0μF	24.0	44.0	41.5	37.5	35	50 E3	R75226-250-W-

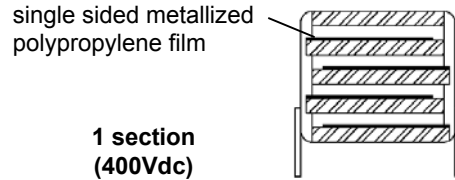
Tolerance: J (± 5%); K (±10%); M (±20%)
 Packaging code: B (bulk); A (ammo); R (reel)
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)
 Omit for standard (4-6)

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

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 waveform and in any case it cannot exceed the value given in the above table. The dv/dt test is carried out at 2 times the above values.

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75



Rated Cap.	400Vdc/220Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	P			
5600pF	4.0	9.0	10.5	7.5	250	200 E3	R75562-400-D-
6800pF	4.0	9.0	10.5	7.5	250	200 E3	R75682-400-D-
8200pF	4.0	9.0	10.5	7.5	250	200 E3	R75822-400-D-
0.010μF	4.0	9.0	10.5	7.5	250	200 E3	R75103-400-D-
0.012μF	4.0	9.0	10.5	7.5	250	200 E3	R75123-400-D-
0.015μF	5.0	11.0	10.5	7.5	250	200 E3	R75153-400-D-
0.018μF	5.0	11.0	10.5	7.5	250	200 E3	R75183-400-D-
0.022μF	6.0	12.0	10.5	7.5	250	200 E3	R75223-400-D-
0.027μF	6.0	12.0	10.5	7.5	250	200 E3	R75273-400-D-
0.010μF	4.0	9.0	13.0	10.0	175	140 E3	R75103-400-F-
0.012μF	4.0	9.0	13.0	10.0	175	140 E3	R75123-400-F-
0.015μF	4.0	9.0	13.0	10.0	175	140 E3	R75153-400-F-
0.018μF	4.0	9.0	13.0	10.0	175	140 E3	R75183-400-F-
0.022μF	5.0	11.0	13.0	10.0	175	140 E3	R75223-400-F-
0.027μF	5.0	11.0	13.0	10.0	175	140 E3	R75273-400-F-
0.033μF	6.0	12.0	13.0	10.0	175	140 E3	R75333-400-F-
0.039μF	6.0	12.0	13.0	10.0	175	140 E3	R75393-400-F-
0.047μF	6.0	12.0	13.0	10.0	175	140 E3	R75473-400-F-
0.068μF	5.0	11.0	18.0	15.0	300	240 E3	R75683-400-I-
0.082μF	5.0	11.0	18.0	15.0	300	240 E3	R75823-400-I-
0.10μF	5.0	11.0	18.0	15.0	300	240 E3	R75104-400-I-
0.12μF	6.0	12.0	18.0	15.0	300	240 E3	R75124-400-I-
0.15μF	6.0	12.0	18.0	15.0	300	240 E3	R75154-400-I-
0.18μF	7.5	13.5	18.0	15.0	300	240 E3	R75184-400-I-
0.22μF	7.5	13.5	18.0	15.0	300	240 E3	R75224-400-I-
0.27μF	8.5	14.5	18.0	15.0	300	240 E3	R75274-400-I-
0.33μF	10.0	16.0	18.0	15.0	300	240 E3	R75334-400-I-
0.39μF	10.0	16.0	18.0	15.0	300	240 E3	R75394-400-I-

Tolerance: J (±5%); K (±10%); M (±20%) _____
 Packaging code: B (bulk); A (ammo); R (reel) _____
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3) _____
 Omit for standard (4-6) _____

Rated Cap.	400Vdc/220Vac**				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	180	144 E3	R75274-400-N-
0.33μF	6.0	15.0	26.5	22.5	180	144 E3	R75334-400-N-
0.39μF	7.0	16.0	26.5	22.5	180	144 E3	R75394-400-N-
0.47μF	7.0	16.0	26.5	22.5	180	144 E3	R75474-400-N-
0.56μF	8.5	17.0	26.5	22.5	180	144 E3	R75564-400-N-
0.68μF	10.0	18.5	26.5	22.5	180	144 E3	R75684-400-N-
0.82μF	10.0	18.5	26.5	22.5	180	144 E3	R75824-400-N-
1.0μF	11.0	20.0	26.5	22.5	180	144 E3	R75105-400-N-
0.56μF	9.0	17.0	32.0	27.5	130	104 E3	R75564-400-R-
0.68μF	9.0	17.0	32.0	27.5	130	104 E3	R75684-400-R-
0.82μF	9.0	17.0	32.0	27.5	130	104 E3	R75824-400-R-
1.0μF	10.0	20.0	32.0	27.5	130	104 E3	R75105-400-R-
*1.2μF	11.0	20.0	32.0	27.5	130	104 E3	R75125-400-R-
*1.5μF	13.0	22.0	32.0	27.5	130	104 E3	R75155-400-R-
*1.8μF	13.0	22.0	32.0	27.5	130	104 E3	R75185-400-R-
*2.2μF	15.0	24.5	32.0	27.5	130	104 E3	R75225-400-R-
*2.7μF	14.0	28.0	32.0	27.5	130	104 E3	R75275-400-R-
*3.3μF	18.0	33.0	32.0	27.5	130	104 E3	R75335-400-R-
*3.9μF	18.0	33.0	32.0	27.5	130	104 E3	R75395-400-R-
*4.7μF	22.0	37.0	32.0	27.5	130	104 E3	R75475-400-R-
*5.6μF	22.0	37.0	32.0	27.5	130	104 E3	R75565-400-R-
6.8μF	19.0	32.0	41.5	37.5	70	56 E3	R75685-400-W-
8.2μF	20.0	40.0	41.5	37.5	70	56 E3	R75825-400-W-
10μF	24.0	44.0	41.5	37.5	70	56 E3	R75106-400-W-

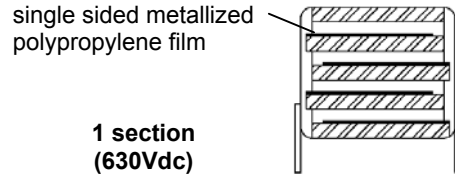
Tolerance: J (±5%); K (±10%); M (±20%) _____
 Packaging code: B (bulk); A (ammo); R (reel) _____
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3) _____
 Omit for standard (4-6) _____

- * These values are available in pitch 37.5mm upon request.
- ** Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors.

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 waveform and in any case it cannot exceed the value given in the above table. The dv/dt test is carried out at 2 times the above values.

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75



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	300	380 E3	R75102-630-D-
1200pF	4.0	9.0	10.5	7.5	300	380 E3	R75122-630-D-
1500pF	4.0	9.0	10.5	7.5	300	380 E3	R75152-630-D-
1800pF	4.0	9.0	10.5	7.5	300	380 E3	R75182-630-D-
2200pF	4.0	9.0	10.5	7.5	300	380 E3	R75222-630-D-
2700pF	4.0	9.0	10.5	7.5	300	380 E3	R75272-630-D-
3300pF	4.0	9.0	10.5	7.5	300	380 E3	R75332-630-D-
3900pF	4.0	9.0	10.5	7.5	300	380 E3	R75392-630-D-
4700pF	4.0	9.0	10.5	7.5	300	380 E3	R75472-630-D-
5600pF	5.0	11.0	10.5	7.5	300	380 E3	R75562-630-D-
6800pF	5.0	11.0	10.5	7.5	300	380 E3	R75682-630-D-
8200pF	5.0	11.0	10.5	7.5	300	380 E3	R75822-630-D-
0.010μF	6.0	12.0	10.5	7.5	300	380 E3	R75103-630-D-
0.012μF	6.0	12.0	10.5	7.5	300	380 E3	R75123-630-D-
1000pF	4.0	9.0	13.0	10.0	250	315 E3	R75102-630-F-
1200pF	4.0	9.0	13.0	10.0	250	315 E3	R75122-630-F-
1500pF	4.0	9.0	13.0	10.0	250	315 E3	R75152-630-F-
1800pF	4.0	9.0	13.0	10.0	250	315 E3	R75182-630-F-
2200pF	4.0	9.0	13.0	10.0	250	315 E3	R75222-630-F-
2700pF	4.0	9.0	13.0	10.0	250	315 E3	R75272-630-F-
3300pF	4.0	9.0	13.0	10.0	250	315 E3	R75332-630-F-
3900pF	4.0	9.0	13.0	10.0	250	315 E3	R75392-630-F-
4700pF	4.0	9.0	13.0	10.0	250	315 E3	R75472-630-F-
5600pF	4.0	9.0	13.0	10.0	250	315 E3	R75562-630-F-
6800pF	4.0	9.0	13.0	10.0	250	315 E3	R75682-630-F-
8200pF	4.0	9.0	13.0	10.0	250	315 E3	R75822-630-F-
0.010μF	5.0	11.0	13.0	10.0	250	315 E3	R75103-630-F-
0.012μF	5.0	11.0	13.0	10.0	250	315 E3	R75123-630-F-
0.015μF	6.0	12.0	13.0	10.0	250	315 E3	R75153-630-F-
0.018μF	6.0	12.0	13.0	10.0	250	315 E3	R75183-630-F-

Tolerance: J (±5%); K (±10%); M (±20%)
 Packaging code: B (bulk); A (ammo); R (reel)
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)
 Omit for standard (4-6)

All dimensions are in mm.

- * These values are available in pitch 37.5mm upon request.
- ** Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors.

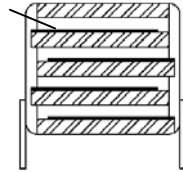
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V. The pulse characteristic K₀ depends on the voltage waveform and in any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

Rated Cap.	630Vdc/250Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	P			
0.022μF	5.0	11.0	18.0	15.0	400	504 E3	R75223-630-I-
0.027μF	5.0	11.0	18.0	15.0	400	504 E3	R75273-630-I-
0.033μF	5.0	11.0	18.0	15.0	400	504 E3	R75333-630-I-
0.039μF	5.0	11.0	18.0	15.0	400	504 E3	R75393-630-I-
0.047μF	5.0	11.0	18.0	15.0	400	504 E3	R75473-630-I-
0.056μF	5.0	11.0	18.0	15.0	400	504 E3	R75563-630-I-
0.068μF	6.0	12.0	18.0	15.0	400	504 E3	R75683-630-I-
0.082μF	6.0	12.0	18.0	15.0	400	504 E3	R75823-630-I-
0.10μF	7.5	13.5	18.0	15.0	400	504 E3	R75104-630-I-
0.12μF	7.5	13.5	18.0	15.0	400	504 E3	R75124-630-I-
0.15μF	8.5	14.5	18.0	15.0	400	504 E3	R75154-630-I-
0.18μF	10.0	16.0	18.0	15.0	400	504 E3	R75184-630-I-
0.22μF	10.0	16.0	18.0	15.0	400	504 E3	R75224-630-I-
0.12μF	6.0	15.0	26.5	22.5	250	315 E3	R75124-630-N-
0.15μF	6.0	15.0	26.5	22.5	250	315 E3	R75154-630-N-
0.18μF	7.0	16.0	26.5	22.5	250	315 E3	R75184-630-N-
0.22μF	7.0	16.0	26.5	22.5	250	315 E3	R75224-630-N-
0.27μF	8.5	17.0	26.5	22.5	250	315 E3	R75274-630-N-
0.33μF	10.0	18.5	26.5	22.5	250	315 E3	R75334-630-N-
0.39μF	10.0	18.5	26.5	22.5	250	315 E3	R75394-630-N-
0.47μF	11.0	20.0	26.5	22.5	250	315 E3	R75474-630-N-
0.56μF	11.0	20.0	26.5	22.5	250	315 E3	R75564-630-N-
0.39μF	11.0	20.0	32.0	27.5	180	227 E3	R75394-630-R-
0.47μF	11.0	20.0	32.0	27.5	180	227 E3	R75474-630-R-
0.56μF	11.0	20.0	32.0	27.5	180	227 E3	R75564-630-R-
*0.68μF	11.0	20.0	32.0	27.5	180	227 E3	R75684-630-R-
*0.82μF	13.0	22.0	32.0	27.5	180	227 E3	R75824-630-R-
*1.0μF	13.0	22.0	32.0	27.5	180	227 E3	R75105-630-R-
*1.2μF	15.0	24.5	32.0	27.5	180	227 E3	R75125-630-R-
*1.5μF	14.0	28.0	32.0	27.5	180	227 E3	R75155-630-R-
*1.8μF	18.0	33.0	32.0	27.5	180	227 E3	R75185-630-R-
*2.2μF	18.0	33.0	32.0	27.5	180	227 E3	R75225-630-R-
*2.7μF	22.0	37.0	32.0	27.5	180	227 E3	R75275-630-R-
*3.3μF	22.0	37.0	32.0	27.5	180	227 E3	R75335-630-R-
3.9μF	20.0	40.0	41.5	37.5	90	113 E3	R75395-630-W-
4.7μF	20.0	40.0	41.5	37.5	90	113 E3	R75475-630-W-
5.6μF	24.0	44.0	41.5	37.5	90	113 E3	R75565-630-W-

Tolerance: J (±5%); K (±10%); M (±20%)
 Packaging code: B (bulk); A (ammo); R (reel)
 Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)
 Omit for standard (4-6)

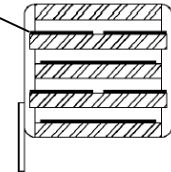
METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75

single sided metallized
polypropylene film



**1 section
(1000Vdc)**

single sided metallized
polypropylene film



**2 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	R75123-1000-I
0.015μF	5.0	11.0	18.0	15.0	450	900 E3	R75153-1000-I
0.018μF	5.0	11.0	18.0	15.0	450	900 E3	R75183-1000-I
0.022μF	5.0	11.0	18.0	15.0	450	900 E3	R75223-1000-I
0.027μF	6.0	12.0	18.0	15.0	450	900 E3	R75273-1000-I
0.033μF	6.0	12.0	18.0	15.0	450	900 E3	R75333-1000-I
0.039μF	7.5	13.5	18.0	15.0	450	900 E3	R75393-1000-I
0.047μF	7.5	13.5	18.0	15.0	450	900 E3	R75473-1000-I
0.056μF	8.5	14.5	18.0	15.0	450	900 E3	R75563-1000-I
0.068μF	8.5	14.5	18.0	15.0	450	900 E3	R75683-1000-I
0.082μF	10.0	16.0	18.0	15.0	450	900 E3	R75823-1000-I
0.068μF	6.0	15.0	26.5	22.5	300	600 E3	R75683-1000-N
0.082μF	7.0	16.0	26.5	22.5	300	600 E3	R75823-1000-N
0.10μF	7.0	16.0	26.5	22.5	300	600 E3	R75104-1000-N
0.12μF	8.5	17.0	26.5	22.5	300	600 E3	R75124-1000-N
0.15μF	10.0	18.5	26.5	22.5	300	600 E3	R75154-1000-N
0.18μF	10.0	18.5	26.5	22.5	300	600 E3	R75184-1000-N
0.22μF	11.0	20.0	26.5	22.5	300	600 E3	R75224-1000-N
*0.22μF	10.0	20.0	32.0	27.5	200	400 E3	R75224-1000-R
*0.27μF	11.0	20.0	32.0	27.5	200	400 E3	R75274-1000-R
*0.33μF	13.0	22.0	32.0	27.5	200	400 E3	R75334-1000-R
*0.39μF	13.0	22.0	32.0	27.5	200	400 E3	R75394-1000-R
*0.47μF	15.0	24.5	32.0	27.5	200	400 E3	R75474-1000-R
*0.56μF	15.0	24.5	32.0	27.5	200	400 E3	R75564-1000-R
*0.68μF	18.0	33.0	32.0	27.5	200	400 E3	R75684-1000-R
*0.82μF	18.0	33.0	32.0	27.5	200	400 E3	R75824-1000-R
*1.0μF	18.0	33.0	32.0	27.5	200	400 E3	R75105-1000-R
*1.2μF	22.0	37.0	32.0	27.5	200	400 E3	R75125-1000-R
1.5μF	19.0	32.0	41.5	37.5	150	300 E3	R75155-1000-W
1.8μF	20.0	40.0	41.5	37.5	150	300 E3	R75185-1000-W
2.2μF	20.0	40.0	41.5	37.5	150	300 E3	R75225-1000-W
2.7μF	24.0	44.0	41.5	37.5	150	300 E3	R75275-1000-W

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

Packaging code: B (bulk); A (ammo); R (reel)

Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)

Omit for standard (4-6)

All dimensions are in mm.

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

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

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

Rated Cap.	1250Vdc/500Vac**				Max dv/dt (V/μs)	Max K ₀ (V ² /μs)	Part Number
	B	H	L	P			
1500pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75152-1250-I
1800pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75182-1250-I
2200pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75222-1250-I
2700pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75272-1250-I
3300pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75332-1250-I
3900pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75392-1250-I
4700pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75472-1250-I
5600pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75562-1250-I
6800pF	5.0	11.0	18.0	15.0	1300	3400 E3	R75682-1250-I
8200pF	6.0	12.0	18.0	15.0	1300	3400 E3	R75822-1250-I
0.010μF	6.0	12.0	18.0	15.0	1300	3400 E3	R75103-1250-I
0.012μF	7.5	13.5	18.0	15.0	1300	3400 E3	R75123-1250-I
0.015μF	7.5	13.5	18.0	15.0	1300	3400 E3	R75153-1250-I
0.018μF	8.5	14.5	18.0	15.0	1300	3400 E3	R75183-1250-I
0.022μF	10.0	16.0	18.0	15.0	1300	3400 E3	R75223-1250-I
0.027μF	10.0	16.0	18.0	15.0	1300	3400 E3	R75273-1250-I
0.018μF	6.0	15.0	26.5	22.5	700	1800 E3	R75183-1250-N
0.022μF	6.0	15.0	26.5	22.5	700	1800 E3	R75223-1250-N
0.027μF	7.0	16.0	26.5	22.5	700	1800 E3	R75273-1250-N
0.033μF	7.0	16.0	26.5	22.5	700	1800 E3	R75333-1250-N
0.039μF	8.5	17.0	26.5	22.5	700	1800 E3	R75393-1250-N
0.047μF	10.0	18.5	26.5	22.5	700	1800 E3	R75473-1250-N
0.056μF	10.0	18.5	26.5	22.5	700	1800 E3	R75563-1250-N
0.068μF	11.0	20.0	26.5	22.5	700	1800 E3	R75683-1250-N
*0.082μF	10.0	20.0	32.0	27.5	500	1300 E3	R75823-1250-R
*0.10μF	11.0	20.0	32.0	27.5	500	1300 E3	R75104-1250-R
*0.12μF	13.0	22.0	32.0	27.5	500	1300 E3	R75124-1250-R
*0.15μF	13.0	22.0	32.0	27.5	500	1300 E3	R75154-1250-R
*0.18μF	14.0	28.0	32.0	27.5	500	1300 E3	R75184-1250-R
*0.22μF	18.0	33.0	32.0	27.5	500	1300 E3	R75224-1250-R
*0.27μF	18.0	33.0	32.0	27.5	500	1300 E3	R75274-1250-R
*0.33μF	18.0	33.0	32.0	27.5	500	1300 E3	R75334-1250-R
*0.39μF	22.0	37.0	32.0	27.5	500	1300 E3	R75394-1250-R
*0.47μF	22.0	37.0	32.0	27.5	500	1300 E3	R75474-1250-R
0.56μF	20.0	40.0	41.5	37.5	360	900 E3	R75564-1250-W
0.68μF	20.0	40.0	41.5	37.5	360	900 E3	R75684-1250-W
0.82μF	24.0	44.0	41.5	37.5	360	900 E3	R75824-1250-W

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

Packaging code: B (bulk); A (ammo); R (reel)

Lead length (mm): L (24-27); T (3.5-4.0); V (2.7-3.3)

Omit for standard (4-6)

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. and PULSE APPLICATIONS SERIES CODE: R75

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 160Vdc - 250Vdc - 400Vdc
630Vdc - 1000Vdc for 1 section
1250Vdc for 2 sections

Rated temperature (T_R): +85°C

Voltage derating vs. temperature:

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:

1000pF to 22μF 1 section
1500pF to 0.82μF 2 sections (1250Vdc)

Capacitance values:

E 12 series (IEC 60063 Norm)

Capacitance tolerances (measured at 1 kHz):

±5% (J); ±10% (K); ±20% (M)

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

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

Dissipation factor (DF):

tgδ × 10⁻⁴ at +25°C ± 5°C

KHz	C ≤ 0.1μF	0.1μF < C ≤ 1μF	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 (15000 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 general information).

Performance

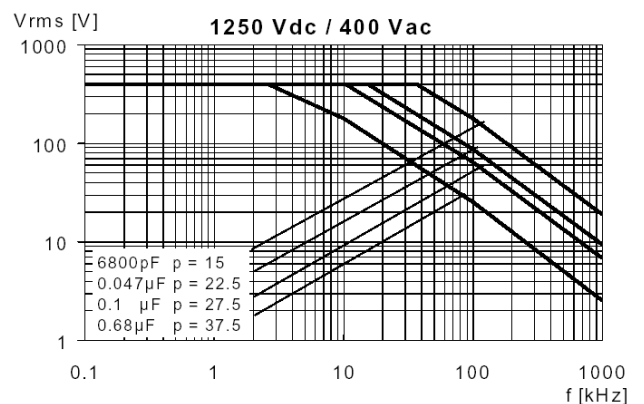
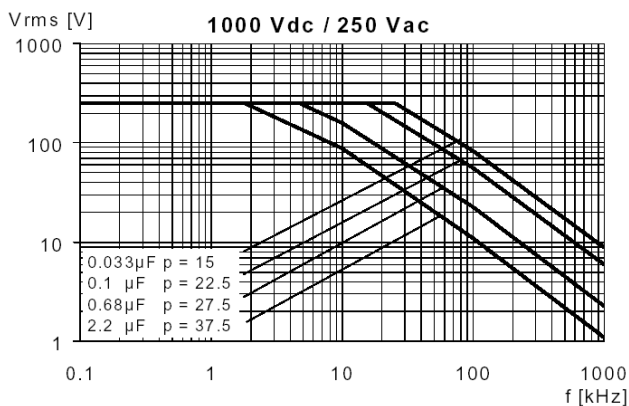
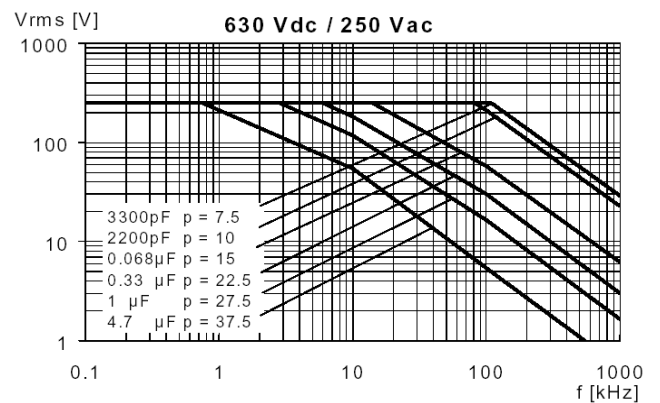
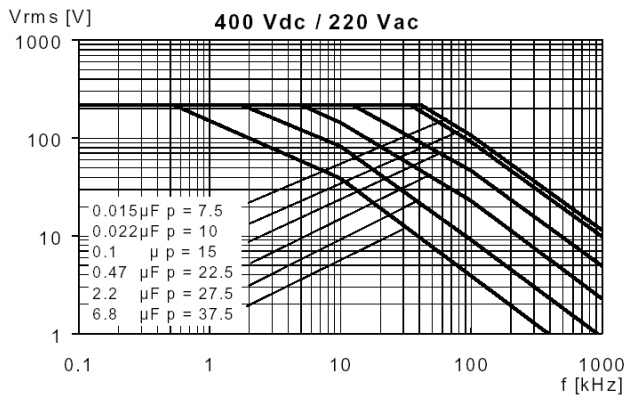
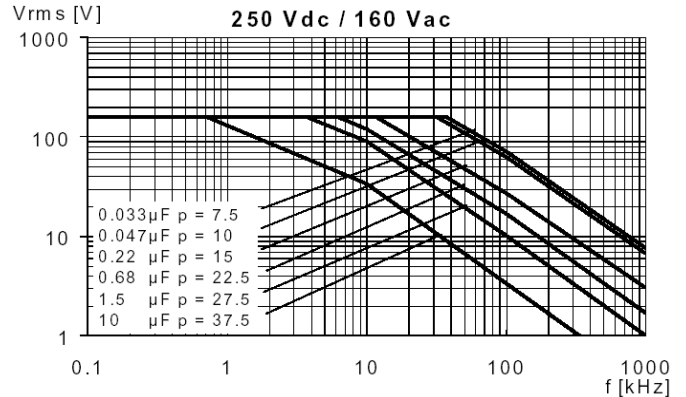
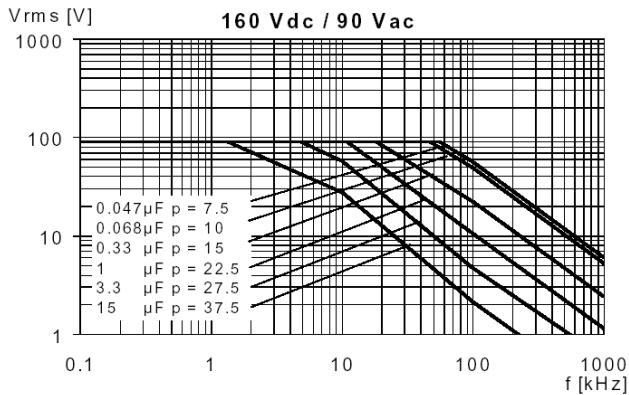
Capacitance change (ΔC/C): ≤ 0.5%

METALLIZED POLYPROPYLENE FILM CAPACITOR

D.C. and PULSE APPLICATIONS

SERIES CODE: R75

MAX. VOLTAGE (Vrms) VERSUS FREQUENCY (sinusoidal waveform / $T_h \leq 40^\circ \text{C}$)



Note: p (pitch) in mm