R75
MKP Series

Loose

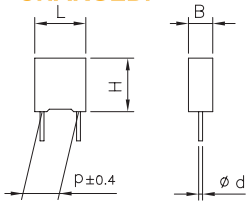
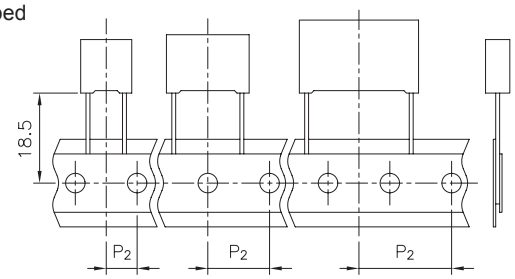


Fig. 1 Fig. 2 Fig. 3

Taped



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

All dimensions are in mm.

HIGH PERFORMANCES

METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

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

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

Pitch	Box thickness	Maximum dimensions (mm)		
(mm)	(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

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%

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.

Plates: aluminium layer deposited by evaporation under vacuum.

Winding: non-inductive type.

Leads: for Ø ≥ 0,6mm : tinned wire
for Ø = 0,5mm : tinned wire, low thermical conductivity

Protection: plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94 V0.

Marking: manufacturer's logo, series (R75), dielectric code (MKP), capacitance, tolerance, D.C. rated voltage, manufacturing date code.

Climatic category: 55/105/56 IEC 60068-1

Operating temperature range: -55 to +105°C

Related documents: IEC 60384-16

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

Standard packaging style	Lead length	Taping style			Ordering code
	(mm)	P_2 (mm)	Fig. (No.)	Pitch (mm)	(Digit 10 to 11)
AMMO-PACK		6.35	1	7.5	DQ
AMMO-PACK		12.70	2	10.0/15.0	DQ
AMMO-PACK		19.05	3	22.5	DQ
REEL Ø 355mm		6.35	1	7.5	CK
REEL Ø 355mm		12.70	2	10.0/15.0	GY
REEL Ø 500mm		12.70	2	10.0/15.0	CK
REEL Ø 500mm		19.05	3	22.5/27.5	CK
Loose, short leads	4^{+2}				AA
Loose, long leads (p<10mm)	$17^{+1/-2}$				Z3
Loose, long leads (p10mm)	$18^{+1/-1}$				JM
Loose, long leads (p≥15mm)	30^{+5} $25^{+2/-1}$				40 50

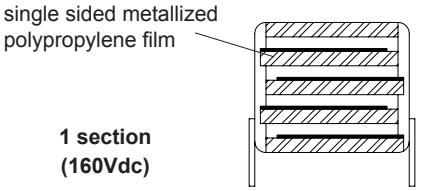
Note: Ammo-pack is the preferred packaging for taped version.

R75
MKP Series

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

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

Rated Cap.	160Vdc / 70Vac Reduced sizes				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.10 µF	4.0	9.0	10.0	7.5	100	32 E3	R75GD 3100--B--
0.12 µF	5.0	10.5	10.0	7.5	100	32 E3	R75GD 3120--B--
0.15 µF	5.0	10.5	10.0	7.5	100	32 E3	R75GD 3150--B--
0.18 µF	6.0	12.0	10.5	7.5	100	32 E3	R75GD 3180--A--
0.22 µF	6.0	12.0	10.5	7.5	100	32 E3	R75GD 3220--A--
0.12 µF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3120--A--
0.15 µF	4.0	9.0	13.0	10.0	90	28 E3	R75GF 3150--A--
0.18 µF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3180--A--
0.22 µF	5.0	11.0	13.0	10.0	90	28 E3	R75GF 3220--A--
0.27 µF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3270--A--
0.33 µF	6.0	12.0	13.0	10.0	90	28 E3	R75GF 3330--A--



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

Rated Cap.	160Vdc / 90Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2µs)	
0.068 µF	4.0	9.0	10.0	7.5	300	74 E3	R75GD2680--4--
0.082 µF	4.0	9.0	10.0	7.5	300	74 E3	R75GD2820--4--
0.10 µF	5.0	10.5	10.0	7.5	300	74 E3	R75GD3100--4--
0.12 µF	5.0	10.5	10.0	7.5	300	74 E3	R75GD3120--4--
0.15 µF	6.0	12.0	10.5	7.5	300	74 E3	R75GD3150--0--
0.18 µF	6.0	12.0	10.5	7.5	300	74 E3	R75GD3180--3--
0.082 µF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 2820--0--
0.10 µF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 3100--3--
0.12 µF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3120--0--
0.15 µF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3150--0--
0.18 µF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3180--0--
0.22 µF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3220--3--
0.18 µF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3180--0--
0.22 µF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3220--0--
0.27 µF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3270--0--
0.33 µF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3330--0--
0.39 µF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3390--0--
0.47 µF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3470--0--
0.47 µF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3470--6--
0.56 µF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3560--0--
0.56 µF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3560--6--
0.68 µF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3680--0--
0.68 µF	13.0	12.0	18.0	15.0	100	32 E3	R75GI 3680--6--
0.82 µF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 3820--0--
1.0 µF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 4100--0--

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

Rated Cap.	160Vdc / 90Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.82 µF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 3820--0--
1.0 µF	7.0	16.0	26.5	22.5	60	19 E3	R75GN 4100--0--
1.2 µF	8.5	17.0	26.5	22.5	60	19 E3	R75GN 4120--0--
1.5 µF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4150--0--
1.8 µF	10.0	18.5	26.5	22.5	60	19 E3	R75GN 4180--0--
1.5 µF	9.0	17.0	32.0	27.5	50	16 E3	R75GR 4150--0--
1.8 µF	9.0	17.0	32.0	27.5	50	16 E3	R75GR 4180--0--
2.2 µF	11.0	20.0	32.0	27.5	50	16 E6	R75GR 4220--3--
2.7 µF	11.0	20.0	32.0	27.5	50	16 E3	R75GR 4270--0--
3.3 µF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4330--0--
3.9 µF	13.0	22.0	32.0	27.5	50	16 E3	R75GR 4390--0--
4.7 µF	13.0	25.0	32.0	27.5	50	16 E3	R75GR 4470--3--
5.6 µF	14.0	28.0	32.0	27.5	50	16 E3	R75GR 4560--0--
6.8 µF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4680--0--
8.2 µF	18.0	33.0	32.0	27.5	50	16 E3	R75GR 4820--0--
10.0 µF	22.0	37.0	32.0	27.5	50	16 E3	R75GR 5100--0--
12.0 µF	22.0	37.0	32.0	27.5	50	16 E3	R75GR 5120--0--
3.3 µF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4330--0--
3.9 µF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4390--0--
4.7 µF	11.0	22.0	41.5	37.5	35	11 E3	R75GW4470--0--
5.6 µF	13.0	24.0	41.5	37.5	35	11 E3	R75GW4560--0--
6.8 µF	16.0	28.5	41.5	37.5	35	11 E3	R75GW4680--0--
8.2 µF	16.0	28.5	41.5	37.5	35	11 E3	R75GW4820--0--
10.0 µF	19.0	32.0	41.5	37.5	35	11 E3	R75GW5100--0--
12.0 µF	19.0	32.0	41.5	37.5	35	11 E3	R75GW5120--0--
15.0 µF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5150--0--
18.0 µF	20.0	40.0	41.5	37.5	35	11 E3	R75GW5180--0--
22.0 µF	24.0	44.0	41.5	37.5	35	11 E3	R75GW5220--0--
27.0 µF	30.0	45.0	41.5	37.5	35	11 E3	R75GW5270--0--
33.0 µF	30.0	45.0	41.5	37.5	35	11 E3	R75GW5330--0--

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

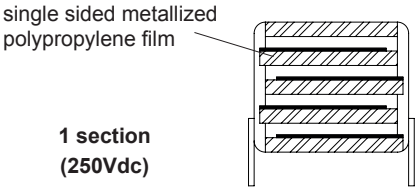
All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K_0 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.

R75
MKP Series

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

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



Rated Cap.	250Vdc / 140Vac Reduced sizes				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.068 µF	4.0	9.0	10.0	7.5	180	90 E3	R75ID 2680--B--
0.082 µF	4.0	9.0	10.0	7.5	180	90 E3	R75ID 2820--B--
0.10 µF	5.0	10.5	10.0	7.5	180	90 E3	R75ID 3100--B--
0.12 µF	5.0	10.5	10.0	7.5	180	90 E3	R75ID 3120--B--
0.15 µF	6.0	12.0	10.5	7.5	180	90 E3	R75ID 3150--A--
0.18 µF	6.0	12.0	10.5	7.5	180	90 E3	R75ID 3180--A--
0.082 µF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 2820--A--
0.10 µF	4.0	9.0	13.0	10.0	150	75 E3	R75IF 3100--A--
0.12 µF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3120--A--
0.15 µF	5.0	11.0	13.0	10.0	150	75 E3	R75IF 3150--A--
0.18 µF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3180--A--
0.22 µF	6.0	12.0	13.0	10.0	150	75 E3	R75IF 3220--A--

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

Rated Cap.	250Vdc / 160Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.027 µF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2270--4--
0.033 µF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2330--4--
0.039 µF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2390--4--
0.047 µF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2470--4--
0.056 µF	4.0	9.0	10.0	7.5	650	150 E3	R75ID2560--4--
0.068 µF	5.0	10.5	10.0	7.5	650	150 E3	R75ID2680--4--
0.082 µF	5.0	10.5	10.0	7.5	650	150 E3	R75ID2820--4--
0.10 µF	6.0	12.0	10.5	7.5	650	150 E3	R75ID3100--3--
0.12 µF	6.0	12.0	10.5	7.5	650	150 E3	R75ID3120--3--
0.033 µF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2330--0--
0.039 µF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2390--0--
0.047 µF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2470--3--
0.056 µF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2560--3--
0.068 µF	4.0	9.0	13.0	10.0	550	140 E3	R75IF 2680--3--
0.082 µF	5.0	11.0	13.0	10.0	550	140 E3	R75IF 2820--3--
0.10 µF	5.0	11.0	13.0	10.0	550	140 E3	R75IF 3100--3--
0.12 µF	6.0	12.0	13.0	10.0	550	140 E3	R75IF 3120--3--
0.15 µF	6.0	12.0	13.0	10.0	550	140 E3	R75IF 3150--3--
0.12 µF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3120--3--
0.15 µF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3150--3--
0.18 µF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3180--4--
0.22 µF	5.0	11.0	18.0	15.0	300	100 E3	R75II 3220--4--
0.27 µF	6.0	12.0	18.0	15.0	300	100 E3	R75II 3270--4--
0.33 µF	6.0	12.0	18.0	15.0	300	100 E3	R75II 3330--4--
0.39 µF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3390--4--
0.39 µF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3390--7--
0.47 µF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3470--4--
0.47 µF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3470--8--
0.56 µF	7.5	13.5	18.0	15.0	300	100 E3	R75II 3560--4--
0.56 µF	9.0	12.5	18.0	15.0	300	100 E3	R75II 3560--8--
0.68 µF	8.5	14.5	18.0	15.0	300	100 E3	R75II 3680--4--
0.68 µF	13.0	12.0	18.0	15.0	300	100 E3	R75II 3680--8--
0.82 µF	10.0	16.0	18.0	15.0	300	100 E3	R75II 3820--4--
0.82 µF	13.0	12.0	18.0	15.0	300	100 E3	R75II 3820--8--
1.0 µF	10.0	16.0	18.0	15.0	300	100 E3	R75II 4100--4--
1.2 µF	11.0	19.0	18.0	15.0	300	100 E3	R75II 4120--4--

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

Rated Cap.	250Vdc / 160Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.39 µF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3390--3--
0.47 µF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3470--3--
0.56 µF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3560--4--
0.68 µF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3680--4--
0.82 µF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 3820--4--
1.0 µF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 4100--4--
1.2 µF	8.5	17.0	26.5	22.5	125	63 E3	R75IN 4120--4--
1.5 µF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4150--4--
1.8 µF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4180--4--
2.2 µF	11.0	20.0	26.5	22.5	125	63 E3	R75IN 4220--4--
2.7 µF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4270--4--
3.3 µF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4330--4--
1.0 µF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4100--3--
1.2 µF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4120--3--
1.5 µF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4150--4--
1.8 µF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4180--4--
2.2 µF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4220--5--
2.7 µF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4270--4--
3.3 µF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4330--4--
3.9 µF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4390--4--
4.7 µF	13.0	25.0	32.0	27.5	100	50 E3	R75IR 4470--5--
5.6 µF	14.0	28.0	32.0	27.5	100	50 E3	R75IR 4560--4--
6.8 µF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4680--4--
8.2 µF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4820--4--
10.0 µF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5100--4--
12.0 µF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5120--4--
3.3 µF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4330--4--
3.9 µF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4390--4--
4.7 µF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4470--4--
5.6 µF	13.0	24.0	41.5	37.5	40	20 E3	R75IW4560--4--
6.8 µF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4680--4--
8.2 µF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4820--4--
10.0 µF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5100--4--
12.0 µF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5120--4--
15.0 µF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5150--4--
18.0 µF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5180--4--
22.0 µF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5220--4--
27.0 µF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5270--4--
33.0 µF	30.0	45.0	41.5	37.5	40	20 E3	R75IW5330--4--

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

All dimensions are mm.

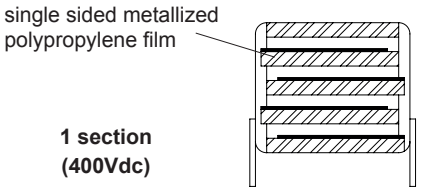
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K_0 depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

R75
MKP Series

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

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

Rated Cap.	400Vdc / 200Vac Reduced sizes				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.027 µF	4.0	9.0	10.0	7.5	390	312 E3	R75MD2270--B--
0.033 µF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2330--B--
0.039 µF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2390--B--
0.047 µF	5.0	10.5	10.0	7.5	390	312 E3	R75MD2470--B--
0.056 µF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2560--A--
0.068 µF	6.0	12.0	10.5	7.5	390	312 E3	R75MD2680--A--



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

Rated Cap.	400Vdc / 220Vac* Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.010 µF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2100--4--
0.012 µF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2120--4--
0.015 µF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2150--4--
0.018 µF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2180--4--
0.022 µF	4.0	9.0	10.0	7.5	1500	360 E3	R75MD2220--4--
0.027 µF	5.0	10.5	10.0	7.5	1500	360 E3	R75MD2270--4--
0.033 µF	5.0	10.5	10.0	7.5	1500	360 E3	R75MD2330--4--
0.039 µF	6.0	12.0	10.5	7.5	1500	360 E3	R75MD2390--3--
0.047 µF	6.0	12.0	10.5	7.5	1500	360 E3	R75MD2470--3--
0.015 µF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2150--0--
0.018 µF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2180--0--
0.022 µF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2220--3--
0.027 µF	4.0	9.0	13.0	10.0	1300	336 E3	R75MF 2270--3--
0.033 µF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2330--3--
0.039 µF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2390--3--
0.047 µF	5.0	11.0	13.0	10.0	1300	336 E3	R75MF 2470--3--
0.056 µF	6.0	12.0	13.0	10.0	1300	336 E3	R75MF 2560--3--
0.068 µF	6.0	12.0	13.0	10.0	1300	336 E3	R75MF 2680--3--
0.068 µF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 2680--3--
0.082 µF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 2820--3--
0.10 µF	5.0	11.0	18.0	15.0	900	240 E3	R75MI 3100--3--
0.12 µF	6.0	12.0	18.0	15.0	900	240 E3	R75MI 3120--3--
0.15 µF	6.0	12.0	18.0	15.0	900	240 E3	R75MI 3150--3--
0.18 µF	7.5	13.5	18.0	15.0	900	240 E3	R75MI 3180--3--
0.22 µF	7.5	13.5	18.0	15.0	900	240 E3	R75MI 3220--3--
0.22 µF	9.0	12.5	18.0	15.0	900	240 E3	R75MI 3220--7--
0.27 µF	8.5	14.5	18.0	15.0	900	240 E3	R75MI 3270--3--
0.27 µF	9.0	12.5	18.0	15.0	900	240 E3	R75MI 3270--7--
0.33 µF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3330--3--
0.33 µF	13.0	12.0	18.0	15.0	900	240 E3	R75MI 3330--7--
0.39 µF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3390--3--
0.47 µF	10.0	16.0	18.0	15.0	900	240 E3	R75MI 3470--3--
0.56 µF	11.0	19.0	18.0	15.0	900	240 E3	R75MI 3560--3--

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

Rated Cap.	400Vdc / 220Vac* Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.18 µF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3180--3--
0.22 µF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3220--3--
0.27 µF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3270--3--
0.33 µF	6.0	15.0	26.5	22.5	300	144 E3	R75MN 3330--3--
0.39 µF	7.0	16.0	26.5	22.5	300	144 E3	R75MN 3390--3--
0.47 µF	7.0	16.0	26.5	22.5	300	144 E3	R75MN 3470--3--
0.56 µF	8.5	17.0	26.5	22.5	300	144 E3	R75MN 3560--3--
0.68 µF	10.0	18.5	26.5	22.5	300	144 E3	R75MN 3680--3--
0.82 µF	10.0	18.5	26.5	22.5	300	144 E3	R75MN 3820--3--
1.0 µF	11.0	20.0	26.5	22.5	300	144 E3	R75MN 4100--3--
1.2 µF	13.0	22.0	26.5	22.5	300	144 E3	R75MN 4120--3--
1.5 µF	13.0	22.0	26.5	22.5	300	144 E3	R75MN 4150--3--
0.56 µF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3560--3--
0.68 µF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3680--3--
0.82 µF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3820--3--
1.0 µF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4100--4--
1.2 µF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4120--3--
1.5 µF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4150--3--
1.8 µF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4180--3--
2.2 µF	13.0	25.0	32.0	27.5	130	104 E3	R75MR 4220--4--
2.7 µF	14.0	28.0	32.0	27.5	130	104 E3	R75MR 4270--3--
3.3 µF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4330--3--
3.9 µF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4390--3--
4.7 µF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4470--3--
5.6 µF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4560--3--
1.2 µF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4120--3--
1.5 µF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4150--3--
1.8 µF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4180--3--
2.2 µF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4220--3--
2.7 µF	13.0	24.0	41.5	37.5	70	56 E3	R75MW4270--3--
3.3 µF	16.0	28.5	41.5	37.5	70	56 E3	R75MW4330--3--
3.9 µF	16.0	28.5	41.5	37.5	70	56 E3	R75MW4390--3--
4.7 µF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4470--3--
5.6 µF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4560--3--
6.8 µF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4680--3--
8.2 µF	20.0	40.0	41.5	37.5	70	56 E3	R75MW4820--3--
10.0 µF	20.0	40.0	41.5	37.5	70	56 E3	R75MW5100--4--
12.0 µF	24.0	44.0	41.5	37.5	70	56 E3	R75MW5120--3--
15.0 µF	30.0	45.0	41.5	37.5	70	56 E3	R75MW5150--3--

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

All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K_0 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)

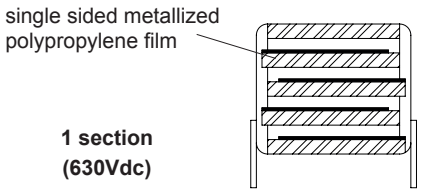
R75
MKP Series

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

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

Rated Cap.	630Vdc / 220Vac* Reduced sizes				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.010 µF	4.0	9.0	10.0	7.5	600	760 E3	R75PD2100--B--
0.012 µF	4.0	9.0	10.0	7.5	600	760 E3	R75PD2120--B--
0.015 µF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2150--B--
0.018 µF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2180--B--
0.022 µF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2220--A--
0.027 µF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2270--A--

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



Rated Cap.	630Vdc / 250Vac* Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
3300 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1330--4--
3900 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1390--4--
4700 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1470--4--
5600 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1560--4--
6800 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1680--4--
8200 pF	4.0	9.0	10.0	7.5	2400	760 E3	R75PD1820--4--
0.010 µF	5.0	10.5	10.0	7.5	2400	760 E3	R75PD2100--4--
0.012 µF	5.0	10.5	10.0	7.5	2400	760 E3	R75PD2120--4--
0.015 µF	6.0	12.0	10.5	7.5	2400	760 E3	R75PD2150--3--
0.018 µF	6.0	12.0	10.5	7.5	2400	760 E3	R75PD2180--3--
3300 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1330--0--
3900 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1390--0--
4700 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1470--0--
5600 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1560--0--
6800 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1680--0--
8200 pF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF1820--0--
0.010 µF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF2100--3--
0.012 µF	4.0	9.0	13.0	10.0	2000	690 E3	R75PF2120--3--
0.015 µF	5.0	11.0	13.0	10.0	2000	690 E3	R75PF2150--3--
0.018 µF	5.0	11.0	13.0	10.0	2000	690 E3	R75PF2180--3--
0.022 µF	6.0	12.0	13.0	10.0	2000	690 E3	R75PF2220--3--
0.027 µF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2270--0--
0.033 µF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2330--0--
0.039 µF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2390--3--
0.047 µF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2470--3--
0.056 µF	5.0	11.0	18.0	15.0	1000	504 E3	R75PI 2560--3--
0.068 µF	6.0	12.0	18.0	15.0	1000	504 E3	R75PI 2680--3--
0.082 µF	6.0	12.0	18.0	15.0	1000	504 E3	R75PI 2820--3--
0.10 µF	7.5	13.5	18.0	15.0	1000	504 E3	R75PI 3100--3--
0.10 µF	9.0	12.5	18.0	15.0	1000	504 E3	R75PI 3100--7--
0.12 µF	7.5	13.5	18.0	15.0	1000	504 E3	R75PI 3120--3--
0.12 µF	9.0	12.5	18.0	15.0	1000	504 E3	R75PI 3120--7--
0.15 µF	8.5	14.5	18.0	15.0	1000	504 E3	R75PI 3150--3--
0.15 µF	13.0	12.0	18.0	15.0	1000	504 E3	R75PI 3150--7--
0.18 µF	10.0	16.0	18.0	15.0	1000	504 E3	R75PI 3180--3--
0.18 µF	13.0	12.0	18.0	15.0	1000	504 E3	R75PI 3180--7--
0.22 µF	10.0	16.0	18.0	15.0	1000	504 E3	R75PI 3220--3--
0.27 µF	11.0	19.0	18.0	15.0	1000	504 E3	R75PI 3270--3--
0.33 µF	11.0	19.0	18.0	15.0	1000	504 E3	R75PI 3330--3--

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

Rated Cap.	630Vdc / 250Vac* Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.082 µF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 2820--3--
0.10 µF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3100--3--
0.12 µF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3120--3--
0.15 µF	6.0	15.0	26.5	22.5	400	315 E3	R75PN 3150--3--
0.18 µF	7.0	16.0	26.5	22.5	400	315 E3	R75PN 3180--3--
0.22 µF	7.0	16.0	26.5	22.5	400	315 E3	R75PN 3220--3--
0.27 µF	8.5	17.0	26.5	22.5	400	315 E3	R75PN 3270--3--
0.33 µF	10.0	18.5	26.5	22.5	400	315 E3	R75PN 3330--3--
0.39 µF	10.0	18.5	26.5	22.5	400	315 E3	R75PN 3390--3--
0.47 µF	11.0	20.0	26.5	22.5	400	315 E3	R75PN 3470--3--
0.56 µF	11.0	20.0	26.5	22.5	400	315 E3	R75PN 3560--3--
0.68 µF	13.0	22.0	26.5	22.5	400	315 E3	R75PN 3680--3--
0.39 µF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3390--3--
0.47 µF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3470--4--
0.56 µF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3560--3--
0.68 µF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3680--3--
0.82 µF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 3820--3--
1.0 µF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 4100--3--
1.2 µF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4120--4--
1.5 µF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4150--3--
1.8 µF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4180--3--
2.2 µF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4220--3--
2.7 µF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4270--3--
3.3 µF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4330--3--
0.68 µF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3680--3--
0.82 µF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3820--3--
1.0 µF	11.0	22.0	41.5	37.5	90	113 E3	R75PW4100--3--
1.2 µF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4120--3--
1.5 µF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4150--3--
1.8 µF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4180--3--
2.2 µF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4220--3--
2.7 µF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4270--3--
3.3 µF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4330--3--
3.9 µF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4390--4--
4.7 µF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4470--3--
5.6 µF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4560--4--
6.8 µF	24.0	44.0	41.5	37.5	90	113 E3	R75PW4680--3--
8.2 µF	30.0	45.0	41.5	37.5	90	113 E3	R75PW4820--3--

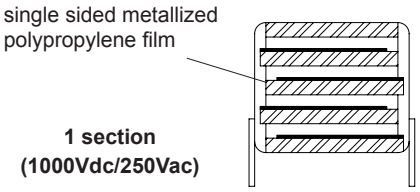
Mechanical version and packaging (Table1)
Internal use
Tolerance: J (±5%); K (±10%); M (±20%)
All dimensions are mm.

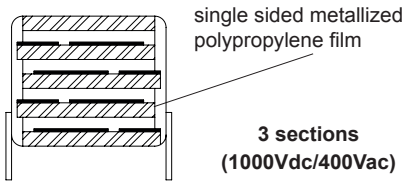
Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K_0 depends on the voltage wave-form and in any 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)

R75
MKP Series

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

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





Rated Cap.	1000Vdc / 250Vac* Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2µs)	
0.012 µF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2120--0--
0.015 µF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2150--0--
0.018 µF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2180--0--
0.022 µF	5.0	11.0	18.0	15.0	2000	900 E3	R75QI 2220--0--
0.027 µF	6.0	12.0	18.0	15.0	2000	900 E3	R75QI 2270--0--
0.033 µF	6.0	12.0	18.0	15.0	2000	900 E3	R75QI 2330--0--
0.039 µF	7.5	13.5	18.0	15.0	2000	900 E3	R75QI 2390--0--
0.047 µF	7.5	13.5	18.0	15.0	2000	900 E3	R75QI 2470--0--
0.047 µF	9.0	12.5	18.0	15.0	2000	900 E3	R75QI 2470--6--
0.056 µF	8.5	14.5	18.0	15.0	2000	900 E3	R75QI 2560--0--
0.056 µF	9.0	12.5	18.0	15.0	2000	900 E3	R75QI 2560--6--
0.068 µF	8.5	14.5	18.0	15.0	2000	900 E3	R75QI 2680--0--
0.068 µF	13.0	12.0	18.0	15.0	2000	900 E3	R75QI 2680--6--
0.082 µF	10.0	16.0	18.0	15.0	2000	900 E3	R75QI 2820--0--
0.10 µF	11.0	19.0	18.0	15.0	2000	900 E3	R75QI 3100--0--
0.047 µF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2470--0--
0.056 µF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2560--0--
0.068 µF	6.0	15.0	26.5	22.5	600	600 E3	R75QN 2680--0--
0.082 µF	7.0	16.0	26.5	22.5	600	600 E3	R75QN 2820--0--
0.10 µF	7.0	16.0	26.5	22.5	600	600 E3	R75QN 3100--0--
0.12 µF	8.5	17.0	26.5	22.5	600	600 E3	R75QN 3120--0--
0.15 µF	10.0	18.5	26.5	22.5	600	600 E3	R75QN 3150--0--
0.18 µF	10.0	18.5	26.5	22.5	600	600 E3	R75QN 3180--0--
0.22 µF	11.0	20.0	26.5	22.5	600	600 E3	R75QN 3220--0--
0.15 µF	9.0	17.0	32.0	27.5	200	400 E3	R75QR 3150--0--
0.18 µF	9.0	17.0	32.0	27.5	200	400 E4	R75QR 3180--0--
0.22 µF	11.0	20.0	32.0	27.5	200	400E4	R75QR 3220--1--
0.27 µF	11.0	20.0	32.0	27.5	200	400 E3	R75QR 3270--0--
0.33 µF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3330--0--
0.39 µF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3390--0--
0.47 µF	13.0	25.0	32.0	27.5	200	400 E3	R75QR 3470--1--
0.56 µF	14.0	28.0	32.0	27.5	200	400 E3	R75QR 3560--1--
0.68 µF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3680--0--
0.82 µF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3820--0--
1.0 µF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 4100--0--
1.2 µF	22.0	37.0	32.0	27.5	200	400 E4	R75QR 4120--0--
1.5 µF	22.0	37.0	32.0	27.5	200	400 E3	R75QR 4150--0--
0.27 µF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3270--0--
0.33 µF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3330--0--
0.39 µF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3390--0--
0.47 µF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3470--0--
0.56 µF	13.0	24.0	41.5	37.5	150	300 E3	R75QW3560--0--
0.68 µF	13.0	24.0	41.5	37.5	150	300E3	R75QW3680--0--
0.82 µF	16.0	28.5	41.5	37.5	150	300 E3	R75QW3820--0--
1.0 µF	16.0	28.5	41.5	37.5	150	300 E3	R75QW4100--0--
1.2 µF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4120--0--
1.5 µF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4150--0--
1.8 µF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4180--0--
2.2 µF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4220--0--
2.7 µF	24.0	44.0	41.5	37.5	150	300 E3	R75QW4270--0--
3.3 µF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4330--0--
3.9 µF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4390--0--

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

Rated Cap.	1000Vdc / 400Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
220 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0220--3--
270 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0270--3--
330 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0330--3--
390 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0390--3--
470 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0470--3--
560 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0560--3--
680 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0680--3--
820 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0820--3--
1000 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 1100--3--
1200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1120--3--
1500 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1150--3--
1800 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1180--3--
2200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1220--3--
2700 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1270--3--
3300 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1330--3--
3900 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1390--3--
4700 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1470--3--
5600 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1560--3--
6800 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1680--3--
8200 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1820--3--

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

All dimensions are mm.

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

The pulse characteristic K_0 depends on the voltage waveform and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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

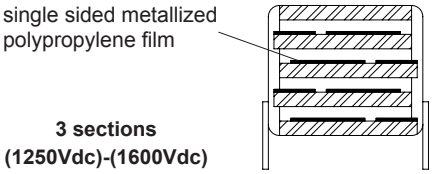
R75

MKP Series
METALLIZED

HIGH PERFORMANCES

POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

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



Rated Cap.	1250Vdc / 600Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
8200 pF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 1820--3--
0.010 µF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 2100--3--
0.012 µF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2120--3--
0.015 µF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2150--3--
0.018 µF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2180--3--
0.022 µF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2220--3--
0.022 µF	9.0	12.5	18.0	15.0	3300	825 E4	R75RI 2220--7--
0.027 µF	8.5	14.5	18.0	15.0	3300	825 E4	R75RI 2270--3--
0.027 µF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2270--7--
0.033 µF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2330--3--
0.033 µF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2330--7--
0.039 µF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2390--3--
0.047 µF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2470--3--
0.056 µF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2560--3--
0.033 µF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2330--3--
0.039 µF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2390--3--
0.047 µF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2470--3--
0.056 µF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2560--3--
0.068 µF	8.5	17.0	26.5	22.5	2100	525 E4	R75RN 2680--3--
0.082 µF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 2820--3--
0.10 µF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 3100--3--
0.12 µF	11.0	20.0	26.5	22.5	2100	525 E4	R75RN 3120--3--
0.15 µF	13.0	22.0	26.5	22.5	2100	525 E4	R75RN 3150--3--
0.10 µF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3100--4--
0.12 µF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3120--4--
0.15 µF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3150--4--
0.18 µF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3180--4--
0.22 µF	13.0	22.0	32.0	27.5	500	125 E4	R75RR 3220--4--
0.27 µF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3270--4--
0.33 µF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3330--4--
0.39 µF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3390--4--
0.47 µF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3470--4--
0.56 µF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3560--4--
0.68 µF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3680--4--
0.82 µF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3820--4--
0.27 µF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3270--3--
0.33 µF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3330--3--
0.39 µF	13.0	24.0	41.5	37.5	360	125 E4	R75RW3390--3--
0.47 µF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3470--4--
0.56 µF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3560--4--
0.68 µF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3680--4--
0.82 µF	19.0	32.0	41.5	37.5	360	125 E4	R75RW3820--4--
1.0 µF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4100--3--
1.2 µF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4120--4--
1.5 µF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4150--4--
1.8 µF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4180--3--
2.2 µF	30.0	45.0	41.5	37.5	360	125 E4	R75RW4220--3--

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

Rated Cap.	1600Vdc / 650Vac Std dimensions B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
3900 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R75TI 1390--3--
4700 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R75TI 1470--3--
5600 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI 1560--3--
6800 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R75TI 1680--3--
8200 pF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI 1820--3--
0.010 µF	6.0	12.0	18.0	15.0	6000	1900 E4	R75TI 2100--3--
0.012 µF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI 2120--3--
0.015 µF	7.5	13.5	18.0	15.0	6000	1900 E4	R75TI 2150--3--
0.018 µF	8.5	14.5	18.0	15.0	6000	1900 E4	R75TI 2180--3--
0.018 µF	9.0	12.5	18.0	15.0	6000	1900 E4	R75TI 2180--7--
0.022 µF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI 2220--3--
0.022 µF	13.0	12.0	18.0	15.0	6000	1900 E4	R75TI 2220--7--
0.027 µF	10.0	16.0	18.0	15.0	6000	1900 E4	R75TI 2270--3--
0.033 µF	11.0	19.0	18.0	15.0	6000	1900 E4	R75TI 2330--3--
0.027 µF	6.0	15.0	26.5	22.5	3000	960 E4	R75TN 2270--3--
0.033 µF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN 2330--3--
0.039 µF	7.0	16.0	26.5	22.5	3000	960 E4	R75TN 2390--3--
0.047 µF	8.5	17.0	26.5	22.5	3000	960 E4	R75TN 2470--3--
0.056 µF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN 2560--3--
0.068 µF	10.0	18.5	26.5	22.5	3000	960 E4	R75TN 2680--3--
0.082 µF	11.0	20.0	26.5	22.5	3000	960 E4	R75TN 2820--3--
0.10 µF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN 3100--3--
0.12 µF	13.0	22.0	26.5	22.5	3000	960 E4	R75TN 3120--3--
0.068 µF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR 2680--3--
0.082 µF	9.0	17.0	32.0	27.5	1500	480 E4	R75TR 2820--3--
0.10 µF	11.0	20.0	32.0	27.5	1500	480 E4	R75TR 3100--4--
0.12 µF	11.0	20.0	32.0	27.5	1500	480 E4	R75TR 3120--3--
0.15 µF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR 3150--3--
0.18 µF	13.0	22.0	32.0	27.5	1500	480 E4	R75TR 3180--3--
0.22 µF	13.0	25.0	32.0	27.5	1500	480 E4	R75TR 3220--4--
0.27 µF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3270--3--
0.33 µF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3330--3--
0.39 µF	18.0	33.0	32.0	27.5	1500	480 E4	R75TR 3390--3--
0.47 µF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR 3470--3--
0.56 µF	22.0	37.0	32.0	27.5	1500	480 E4	R75TR 3560--3--
0.18 µF	11.0	22.0	41.5	37.5	750	240 E4	R75TW 3180--3--
0.22 µF	11.0	22.0	41.5	37.5	750	240 E4	R75TW 3220--3--
0.27 µF	13.0	24.0	41.5	37.5	750	240 E4	R75TW 3270--3--
0.33 µF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3330--3--
0.39 µF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3390--3--
0.47 µF	16.0	28.5	41.5	37.5	750	240 E4	R75TW 3470--3--
0.56 µF	19.0	32.0	41.5	37.5	750	240 E4	R75TW 3560--3--
0.68 µF	19.0	32.0	41.5	37.5	750	240 E4	R75TW 3680--3--
0.82 µF	20.0	40.0	41.5	37.5	750	240 E4	R75TW 3820--3--
1.0 µF	24.0	44.0	41.5	37.5	750	240 E4	R75TW 4100--3--
1.2 µF	24.0	44.0	41.5	37.5	750	240 E4	R75TW 4120--3--
1.5 µF	30.0	45.0	41.5	37.5	750	240 E4	R75TW 4150--3--

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

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 K_0 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.

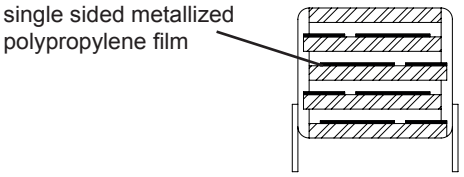
R75
MKP Series

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

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

Rated Cap.	2000Vdc / 700Vac Std dimensions				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
1000 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1100--4--
1200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1120--4--
1500 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1150--4--
1800 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1180--4--
2200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1220--4--
2700 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1270--4--
3300 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1330--4--
3900 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1390--3--
4700 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1470--3--
5600 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1560--3--
6800 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1680--3--
8200 pF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 1820--3--
0.010 µF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 2100--3--
0.012 µF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2120--3--
0.012 µF	9.0	12.5	18.0	15.0	9500	3800 E4	R75UI 2120--7--
0.015 µF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2150--3--
0.015 µF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2150--7--
0.018 µF	10.0	16.0	18.0	15.0	9500	3800 E4	R75UI 2180--3--
0.018 µF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2180--7--
0.022 µF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2220--3--
0.027 µF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2270--3--
4700 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1470--3--
5600 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1560--3--
6800 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1680--3--
8200 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1820--3--
0.010 µF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2100--3--
0.012 µF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2120--3--
0.015 µF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2150--3--
0.018 µF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2180--3--
0.022 µF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2220--3--
0.027 µF	7.0	16.0	26.5	22.5	3500	1400 E4	R75UN 2270--3--
0.033 µF	8.5	17.0	26.5	22.5	3500	1400 E4	R75UN 2330--3--
0.039 µF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2390--3--
0.047 µF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2470--3--
0.056 µF	11.0	20.0	26.5	22.5	3500	1400 E4	R75UN 2560--3--
0.068 µF	13.0	22.0	26.5	22.5	3500	1400 E4	R75UN 2680--3--
0.047 µF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2470--3--
0.056 µF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2560--3--
0.068 µF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2680--4--
0.082 µF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 2820--4--
0.10 µF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 3100--3--
0.12 µF	13.0	22.0	32.0	27.5	1000	400 E4	R75UR 3120--3--
0.15 µF	13.0	25.0	32.0	27.5	1000	400 E4	R75UR 3150--4--
0.18 µF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3180--3--
0.22 µF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3220--4--
0.27 µF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3270--3--
0.33 µF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3330--4--
0.39 µF	22.0	37.0	32.0	37.5	1000	400 E4	R75UR 3390--3--
0.47 µF	22.0	37.0	32.0	27.5	1000	400 E4	R75UR 3470--4--
0.15 µF	11.0	22.0	41.5	37.5	500	200 E4	R75UW3150--3--
0.18 µF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3180--3--
0.22 µF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3220--3--
0.27 µF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3270--3--
0.33 µF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3330--3--
0.39 µF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3390--3--
0.47 µF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3470--3--
0.56 µF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3560--4--
0.68 µF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3680--3--
0.82 µF	24.0	44.0	41.5	37.5	500	200 E4	R75UW3820--4--
1.0 µF	24.0	44.0	41.5	37.5	500	200 E4	R75UW4100--3--

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



3 sections (2000Vdc)

All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V.
The pulse characteristic K_0 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.

R75
MKP Series

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 33µF for 1 section.
1000 pF to 2.2µF 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):
tgδx10^{-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:	1min
Voltage charge:	100Vdc

Performance
≥1x10^5 MΩ for C≤0.33µF (5x10^5 MΩ)*
≥30000 s for C >0.33µF (150000 s)*
* Typical value.

Test voltage between terminations:
1.6xV_R applied for 2 s at +25°C±5°C

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

Test conditions

Temperature:	+40°C±2°C
Relative humidity (RH):	93% ±2%
Test duration:	56 days

Performance

Capacitance change |ΔC/C|:	≤2%
DF change (Δtgδ):	≤10x10^{-4} at 1kHz
Insulation resistance:	≥50% of initial limit.

Endurance:

Test conditions

Temperature:	+85°C±2°C
Test duration:	2000 h
Voltage applied:	1.25xV_R

Performance

Capacitance change |ΔC/C|:	≤3%
DF change (Δtgδ):	≤10x10^{-4} at 10kHz for C≤1µF ≤10x10^{-4} at 1kHz for C>1µF
Insulation resistance:	≥50% of initial limit.

Resistance to soldering heat:

Test conditions

Solder bath temperature:	+260°C±5°C
Dipping time (with heat screen):	10 s±1 s

Performance

Capacitance change |ΔC/C|:	≤1%
DF change (Δtgδ):	≤10x10^{-4} at 10kHz for C≤1µF ≤10x10^{-4} at 1kHz for C>1µF
Insulation resistance:	≥initial limit.

Long term stability (after two years)**:**
Storage: standard environmental conditions (see page 12)
Performance
Capacitance change |ΔC/C|: ≤0.5%

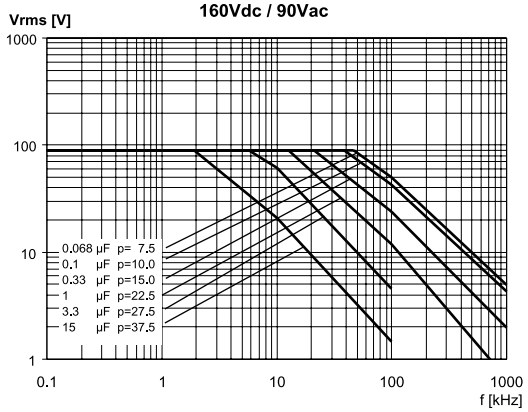
R75
MKP Series

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

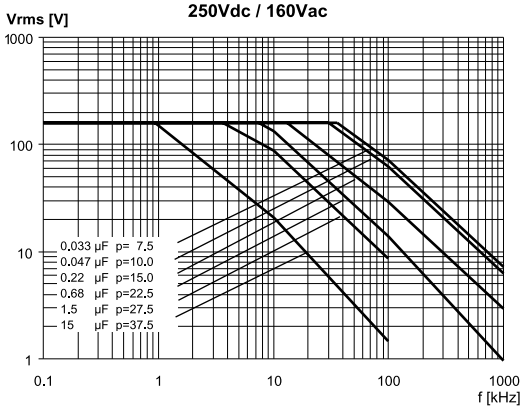
PRODUCT CODE: **R75 (Digit 12: 0 to 9)**

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

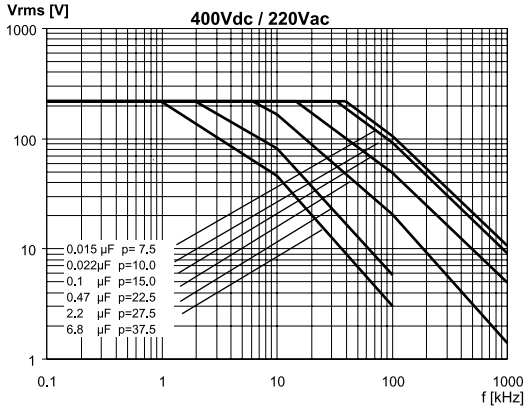
160Vdc / 90Vac



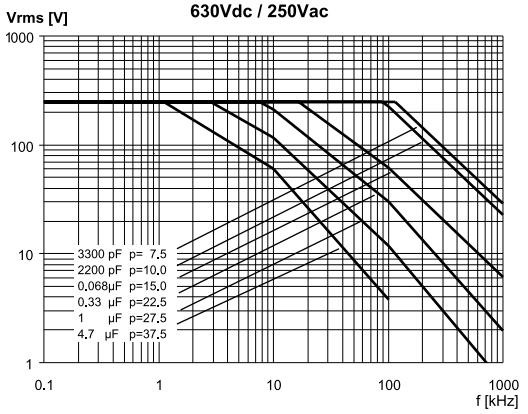
250Vdc / 160Vac



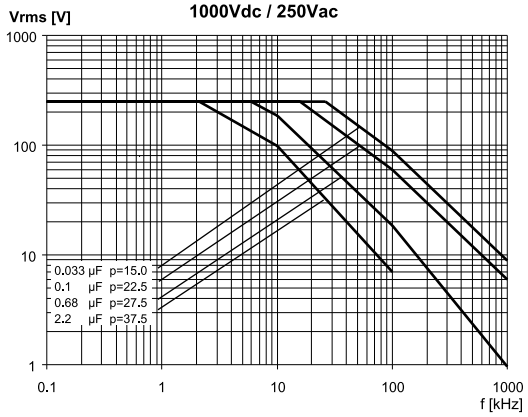
400Vdc / 220Vac



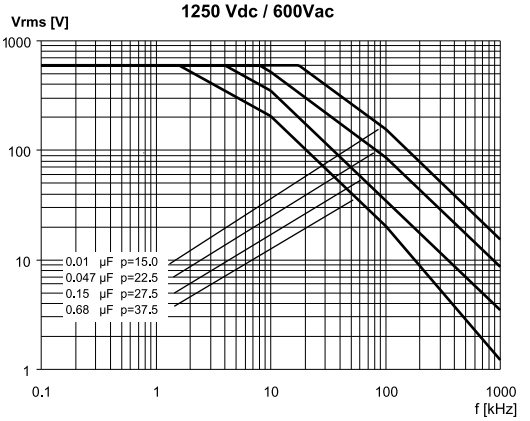
630Vdc / 250Vac



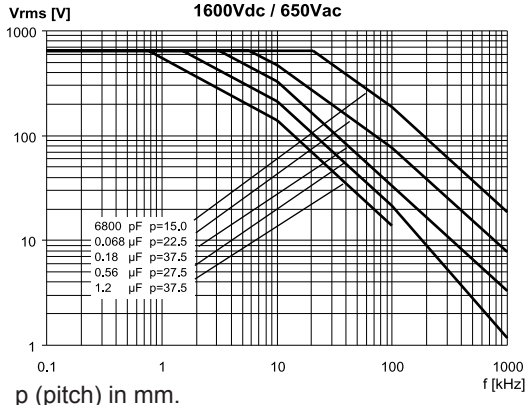
1000Vdc / 250Vac



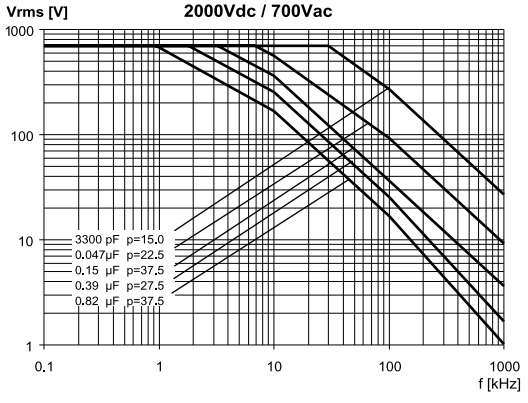
1250 Vdc / 600Vac



1600Vdc / 650Vac



2000Vdc / 700Vac



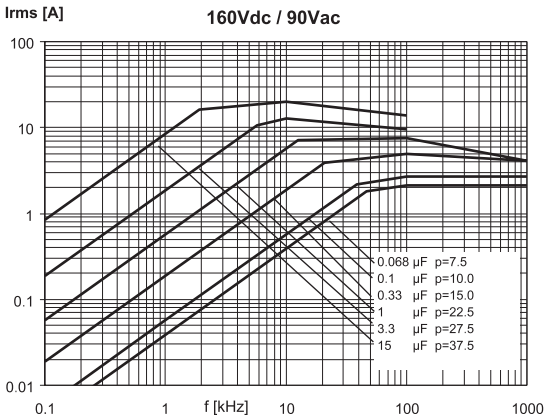
Note: p (pitch) in mm.

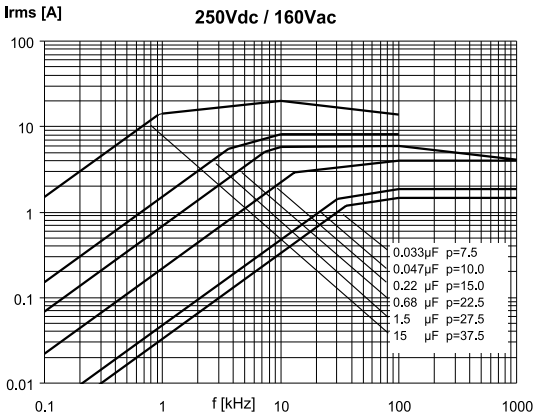
R75
MKP Series

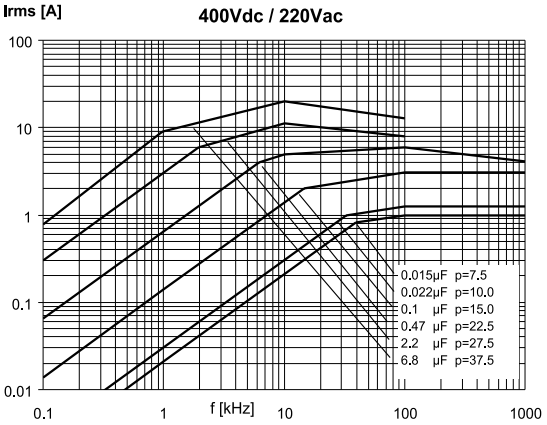
HIGH PERFORMANCES
METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. AND PULSE APPLICATIONS

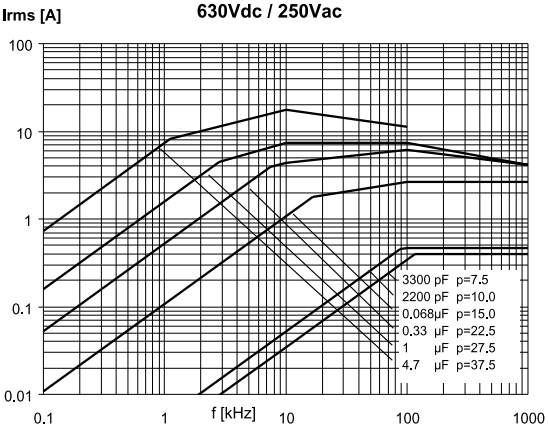
PRODUCT CODE: **R75 (Digit 12: 0 to 9)**

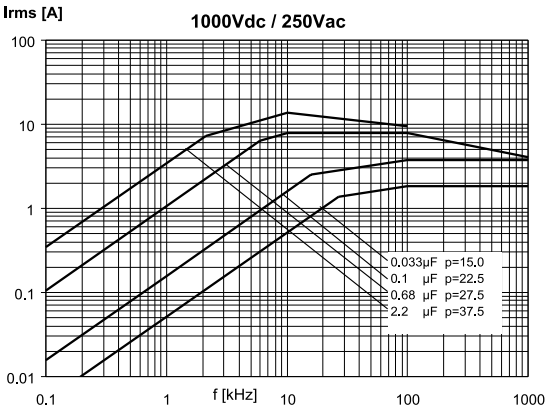
MAX. CURRENT (Ir.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / Th ≤ 40°C)

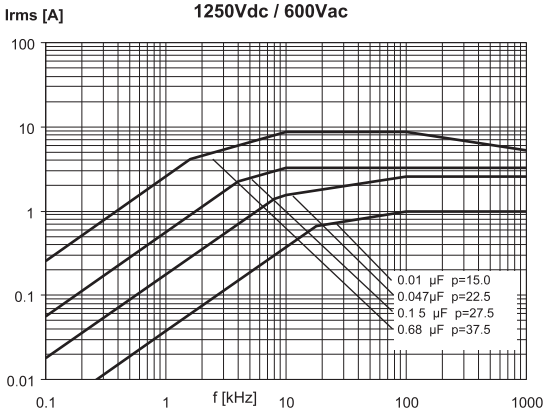


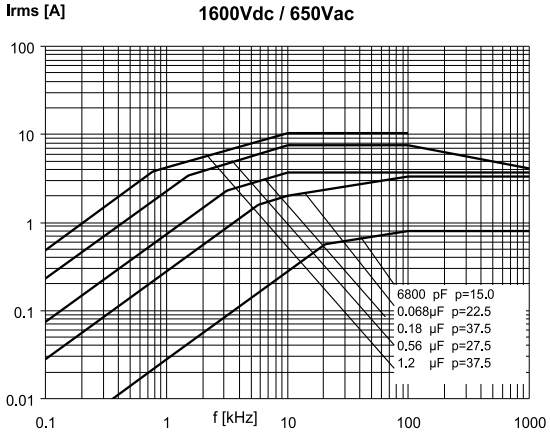


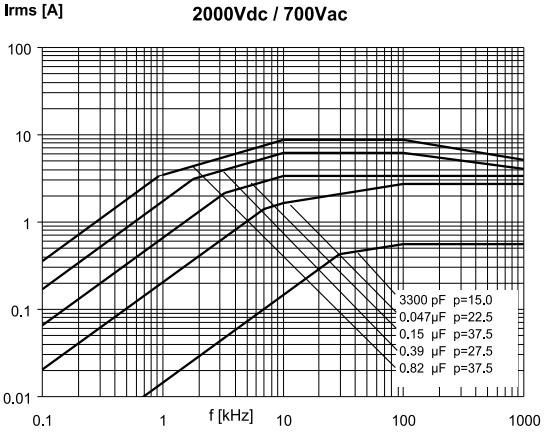












Note: p (pitch) in mm.

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