ARCOTRONICS

R76

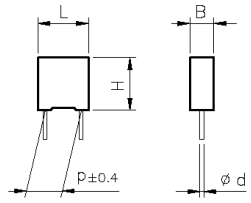
MMKP Series

POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES D.C. AND PULSE APPLICATIONS

Typical applications: deflection circuits in TV-sets (S-correction and fly-back tuning) and monitors, switching spikes suppression in SMPS, lamp capacitor for electronic ballast and compact lamps, SNUBBER and SCR commutating circuits, applications with high voltage and high current.

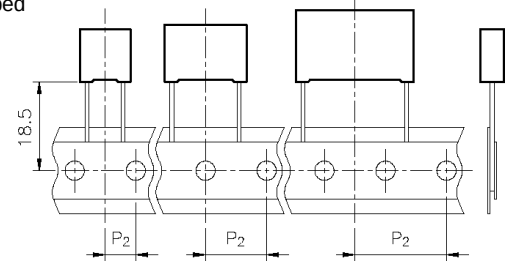
PRODUCT CODE: **R76**

Loose



Taped

Fig. 1 Fig. 2 Fig. 3



⊘ 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	6										–	

Digit 1 to 3 Series code.

Digit 4 d.c. rated voltage:

I = 250V M= 400V P = 630V
Q = 1000V T = 1600V U = 2000V

Digit 5 Pitch:
D=7.5 mm; F=10mm; I=15mm; N=22.5mm; 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.

Digit 13 Internal use.

Digit 14 Capacitance tolerance:
H=2.5%; J=5%; K=10%

GENERAL TECHNICAL DATA

Dielectric: polypropylene film.
Plates: double sided metallized polyester film.
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 (R76), 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

Standard packaging style	Lead length (mm)	Taping style P_2 (mm)	Taping style Fig. (No.)	Taping style Pitch (mm)	Ordering code (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 ⊘ 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}				SE
Loose, long leads (p ≤ 10mm)	$17^{+1/-2}$				Z3
Loose, long leads (p ⩾ 15mm)	30^{+5} $25^{+2/-1}$				40 50

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

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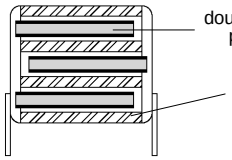
PRODUCT CODE: **R76**



1 section (250Vdc)

Rated Cap.	250Vdc / 180Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
6800pF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID1680--3--
8200pF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID1820--3--
0.010µF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID2100--3--
0.012µF	3.5	8.5	10.5	7.5	1100	55 E4	R76ID2120--3--
0.015µF	3.5	8.5	10.5	7.5	1100	55 E4	R76ID2150--3--
0.018µF	3.5	8.5	10.5	7.5	1100	55 E4	R76ID2180--3--
0.022µF	4.0	9.0	10.5	7.5	1100	55 E4	R76ID2220--3--
0.027µF	5.0	11.0	10.5	7.5	1100	55 E4	R76ID2270--3--
0.033µF	5.0	11.0	10.5	7.5	1100	55 E4	R76ID2330--3--
0.039µF	6.0	12.0	10.5	7.5	1100	55 E4	R76ID2390--3--
0.047µF	6.0	12.0	10.5	7.5	1100	55 E4	R76ID2470--3--
0.027µF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF2270--3--
0.033µF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF2330--3--
0.039µF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF2390--3--
0.047µF	5.0	11.0	13.0	10.0	1000	50 E4	R76IF2470--3--
0.056µF	5.0	11.0	13.0	10.0	1000	50 E4	R76IF2560--3--
0.068µF	6.0	12.0	13.0	10.0	1000	50 E4	R76IF2680--3--
0.082µF	6.0	12.0	13.0	10.0	1000	50 E4	R76IF2820--3--
0.068µF	5.0	11.0	18.0	15.0	550	28 E4	R76II 2680--3--
0.082µF	5.0	11.0	18.0	15.0	550	28 E4	R76II 2820--3--
0.10µF	5.0	11.0	18.0	15.0	550	28 E4	R76II 3100--3--
0.12µF	6.0	12.0	18.0	15.0	550	28 E4	R76II 3120--3--
0.15µF	6.0	12.0	18.0	15.0	550	28 E4	R76II 3150--3--
0.18µF	7.5	13.5	18.0	15.0	550	28 E4	R76II 3180--3--
0.18µF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3180--7--
0.22µF	7.5	13.5	18.0	15.0	550	28 E4	R76II 3220--3--
0.22µF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3220--7--
0.27µF	8.5	14.5	18.0	15.0	550	28 E4	R76II 3270--3--
0.27µF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3270--7--
0.33µF	10.0	16.0	18.0	15.0	550	28 E4	R76II 3330--3--
0.33µF	13.0	12.0	18.0	15.0	550	28 E4	R76II 3330--7--
0.39µF	10.0	16.0	18.0	15.0	550	28 E4	R76II 3390--3--
0.47µF	11.0	19.0	18.0	15.0	550	28 E4	R76II 3470--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

Rated Cap.	250Vdc / 180Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
0.22µF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3220--0--
0.27µF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3270--3--
0.33µF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3330--3--
0.39µF	7.0	16.0	26.5	22.5	250	13 E4	R76IN 3390--3--
0.47µF	7.0	16.0	26.5	22.5	250	13 E4	R76IN 3470--3--
0.56µF	8.5	17.0	26.5	22.5	250	13 E4	R76IN 3560--3--
0.68µF	10.0	18.5	26.5	22.5	250	13 E4	R76IN 3680--3--
0.82µF	10.0	18.5	26.5	22.5	250	13 E4	R76IN 3820--3--
1.0µF	11.0	20.0	26.5	22.5	250	13 E4	R76IN 4100--3--
1.2µF	13.0	22.0	26.5	22.5	250	13 E4	R76IN 4120--3--
0.82µF	9.0	17.0	32.0	27.5	200	10 E4	R76IR 3820--3--
1.0µF	11.0	20.0	32.0	27.5	200	10 E4	R76IR 4100--3--
*1.2µF	13.0	22.0	32.0	27.5	200	10 E4	R76IR 4120--3--
*1.5µF	13.0	22.0	32.0	27.5	200	10 E4	R76IR 4150--3--
*1.8µF	15.0	24.5	32.0	27.5	200	10 E4	R76IR 4180--3--
*2.2µF	15.0	24.5	32.0	27.5	200	10 E4	R76IR 4220--3--
*2.7µF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4270--3--
*3.3µF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4330--3--
*3.9µF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4390--3--
*4.7µF	22.0	37.0	32.0	27.5	200	10 E4	R76IR 4470--3--
5.6µF	19.0	32.0	41.5	37.5	100	5 E4	R76IW4560--3--
6.8µF	20.0	40.0	41.5	37.5	100	5 E4	R76IW4680--3--
8.2µF	20.0	40.0	41.5	37.5	100	5 E4	R76IW4820--3--
10.0µF	24.0	44.0	41.5	37.5	100	5 E4	R76IW5100--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

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 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.

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

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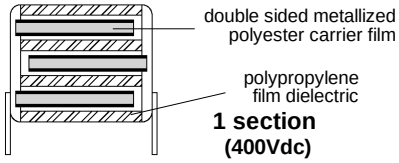

Rated Cap.	400Vdc / 250Vac**				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
2700pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1270--3--
3300pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1330--3--
3900pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1390--3--
4700pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1470--3--
5600pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1560--3--
6800pF	3.5	8.5	10.5	7.5	1700	136 E4	R76MD1680--3--
8200pF	3.5	8.5	10.5	7.5	1700	136 E4	R76MD1820--3--
0.010µF	3.5	8.5	10.5	7.5	1700	136 E4	R76MD2100--3--
0.012µF	4.0	9.0	10.5	7.5	1700	136 E4	R76MD2120--3--
0.015µF	5.0	11.0	10.5	7.5	1700	136 E4	R76MD2150--3--
0.018µF	5.0	11.0	10.5	7.5	1700	136 E4	R76MD2180--3--
0.022µF	6.0	12.0	10.5	7.5	1700	136 E4	R76MD2220--3--
0.027µF	6.0	12.0	10.5	7.5	1700	136 E4	R76MD2270--3--
0.010µF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2100--0--
0.012µF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2120--0--
0.015µF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2150--3--
0.018µF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2180--3--
0.022µF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2220--3--
0.027µF	5.0	11.0	13.0	10.0	1500	120 E4	R76MF 2270--3--
0.033µF	5.0	11.0	13.0	10.0	1500	120 E4	R76MF 2330--3--
0.039µF	6.0	12.0	13.0	10.0	1500	120 E4	R76MF 2390--3--
0.047µF	6.0	12.0	13.0	10.0	1500	120 E4	R76MF 2470--3--
0.033µF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2330--0--
0.039µF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2390--3--
0.047µF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2470--3--
0.056µF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2560--3--
0.068µF	6.0	12.0	18.0	15.0	900	72 E4	R76MI 2680--3--
0.082µF	6.0	12.0	18.0	15.0	900	72 E4	R76MI 2820--3--
0.10µF	7.5	13.5	18.0	15.0	900	72 E4	R76MI 3100--3--
0.10µF	9.0	12.5	18.0	15.0	900	72 E4	R76MI 3100--7--
0.12µF	7.5	13.5	18.0	15.0	900	72 E4	R76MI 3120--3--
0.12µF	9.0	12.5	18.0	15.0	900	72 E4	R76MI 3120--7--
0.15µF	8.5	14.5	18.0	15.0	900	72 E4	R76MI 3150--3--
0.15µF	13.0	12.0	18.0	15.0	900	72 E4	R76MI 3150--7--
0.18µF	10.0	16.0	18.0	15.0	900	72 E4	R76MI 3180--3--
0.18µF	13.0	12.0	18.0	15.0	900	72 E4	R76MI 3180--7--
0.22µF	10.0	16.0	18.0	15.0	900	72 E4	R76MI 3220--3--
0.27µF	11.0	19.0	18.0	15.0	900	72 E4	R76MI 3270--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

Rated Cap.	400Vdc / 250Vac**				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.12µF	6.0	15.0	26.5	22.5	500	40 E4	R76MN 3120--3--
0.15µF	6.0	15.0	26.5	22.5	500	40 E4	R76MN 3150--3--
0.18µF	6.0	15.0	26.5	22.5	500	40 E4	R76MN 3180--3--
0.22µF	7.0	16.0	26.5	22.5	500	40 E4	R76MN 3220--3--
0.27µF	8.5	17.0	26.5	22.5	500	40 E4	R76MN 3270--3--
0.33µF	8.5	17.0	26.5	22.5	500	40 E4	R76MN 3330--3--
0.39µF	10.0	18.5	26.5	22.5	500	40 E4	R76MN 3390--3--
0.47µF	10.0	18.5	26.5	22.5	500	40 E4	R76MN 3470--3--
0.56µF	11.0	20.0	26.5	22.5	500	40 E4	R76MN 3560--3--
0.68µF	13.0	22.0	26.5	22.5	500	40 E4	R76MN 3680--3--
0.39µF	9.0	17.0	32.0	27.5	300	24 E4	R76MR 3390--3--
0.47µF	9.0	17.0	32.0	27.5	300	24 E4	R76MR 3470--3--
0.56µF	11.0	20.0	32.0	27.5	300	24 E4	R76MR 3560--3--
0.68µF	11.0	20.0	32.0	27.5	300	24 E4	R76MR 3680--3--
0.82µF	13.0	22.0	32.0	27.5	300	24 E4	R76MR 3820--3--
*1.0µF	15.0	24.5	32.0	27.5	300	24 E4	R76MR 4100--3--
*1.2µF	15.0	24.5	32.0	27.5	300	24 E4	R76MR 4120--3--
*1.5µF	18.0	33.0	32.0	27.5	300	24 E4	R76MR 4150--3--
*1.8µF	18.0	33.0	32.0	27.5	300	24 E4	R76MR 4180--3--
*2.2µF	22.0	37.0	32.0	27.5	300	24 E4	R76MR 4220--3--
*2.7µF	22.0	37.0	32.0	27.5	300	24 E4	R76MR 4270--3--
3.3µF	19.0	32.0	41.5	37.5	180	14 E4	R76MW4330--3--
3.9µF	20.0	40.0	41.5	37.5	180	14 E4	R76MW4390--3--
4.7µF	20.0	40.0	41.5	37.5	180	14 E4	R76MW4470--3--
5.6µF	24.0	44.0	41.5	37.5	180	14 E4	R76MW4560--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

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 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.

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

**Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (see page 105 of Film Capacitors catalogue 2000 Edition).

Last revised in July 2002

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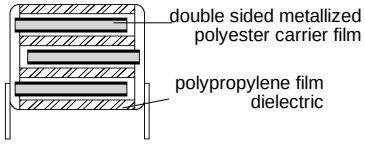
1 section (630Vdc/250Vac)



Rated Cap.	630Vdc/250Vac** B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
680pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD0680--0--
820pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD0820--0--
1000pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1100--0--
1200pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1120--0--
1500pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1150--0--
1800pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1180--0--
2200pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1220--0--
2700pF	3.5	8.5	10.5	7.5	2800	353 E4	R76PD1270--3--
3300pF	3.5	8.5	10.5	7.5	2800	355 E4	R76PD1330--3--
3900pF	3.5	8.5	10.5	7.5	2800	353 E4	R76PD1390--3--
4700pF	4.0	9.0	10.5	7.5	2800	353 E4	R76PD1470--3--
5600pF	4.0	9.0	10.5	7.5	2800	353 E4	R76PD1560--3--
6800pF	5.0	11.0	10.5	7.5	2800	353 E4	R76PD1680--3--
8200pF	5.0	11.0	10.5	7.5	2800	353 E4	R76PD1820--3--
0.010µF	6.0	12.0	10.5	7.5	2800	353 E4	R76PD2100--3--
0.012µF	6.0	12.0	10.5	7.5	2800	353 E4	R76PD2120--3--

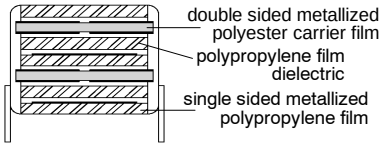
Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%) for C ≥ 1000pF; J (±5%); K (±10%)

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 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.

2 sections (630Vdc/400Vac)



Rated Cap.	630Vdc / 400Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
3900pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1390--0--
4700pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1470--0--
5600pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1560--0--
6800pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1680--0--
8200pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1820--0--
0.010µF	5.0	11.0	13.0	10.0	3000	378 E4	R76PF2100--3--
0.012µF	5.0	11.0	13.0	10.0	3000	378 E4	R76PF2120--3--
0.015µF	6.0	12.0	13.0	10.0	3000	378 E4	R76PF2150--3--
0.018µF	6.0	12.0	13.0	10.0	3000	378 E4	R76PF2180--3--
0.012µF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2120--0--
0.015µF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2150--0--
0.018µF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2180--0--
0.022µF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2220--3--
0.027µF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2270--3--
0.033µF	6.0	12.0	18.0	15.0	2500	315 E4	R76PI 2330--3--
0.039µF	6.0	12.0	18.0	15.0	2500	315 E4	R76PI 2390--3--
0.047µF	7.5	13.5	18.0	15.0	2500	315 E4	R76PI 2470--3--
0.047µF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2470--7--
0.056µF	7.5	13.5	18.0	15.0	2500	315 E4	R76PI 2560--3--
0.056µF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2560--7--
0.068µF	8.5	14.5	18.0	15.0	2500	315 E4	R76PI 2680--3--
0.068µF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2680--7--
0.082µF	8.5	14.5	18.0	15.0	2500	315 E4	R76PI 2820--3--
0.082µF	13.0	12.0	18.0	15.0	2500	315 E4	R76PI 2820--7--
0.10µF	10.0	16.0	18.0	15.0	2500	315 E4	R76PI 3100--3--
0.12µF	11.0	19.0	18.0	15.0	2500	315 E4	R76PI 3120--3--
0.047µF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2470--0--
0.056µF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2560--0--
0.068µF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2680--0--
0.082µF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2820--3--
0.10µF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 3100--3--
0.12µF	7.0	16.0	26.5	22.5	1500	189 E4	R76PN 3120--3--
0.15µF	8.5	17.0	26.5	22.5	1500	189 E4	R76PN 3150--3--
0.18µF	8.5	17.0	26.5	22.5	1500	189 E4	R76PN 3180--3--
0.22µF	10.0	18.5	26.5	22.5	1500	189 E4	R76PN 3220--3--
0.27µF	11.0	20.0	26.5	22.5	1500	189 E4	R76PN 3270--3--
0.33µF	11.0	20.0	26.5	22.5	1500	189 E4	R76PN 3330--3--
0.39µF	13.0	22.0	26.5	22.5	1500	189 E4	R76PN 3390--3--
0.15µF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3150--3--
0.18µF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3180--3--
0.22µF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3220--3--
0.27µF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3270--3--
*0.33µF	10.0	20.0	32.0	27.5	900	113 E4	R76PR 3330--3--
*0.39µF	11.0	20.0	32.0	27.5	900	113 E4	R76PR 3390--3--
*0.47µF	13.0	22.0	32.0	27.5	900	113 E4	R76PR 3470--3--
*0.56µF	13.0	22.0	32.0	27.5	900	113 E4	R76PR 3560--3--
*0.68µF	15.0	24.5	32.0	27.5	900	113 E4	R76PR 3680--3--
*0.82µF	14.0	28.0	32.0	27.5	900	113 E4	R76PR 3820--3--
*1.0µF	18.0	33.0	32.0	27.5	900	113 E4	R76PR 4100--3--
*1.2µF	18.0	33.0	32.0	27.5	900	113 E4	R76PR 4120--3--
*1.5µF	22.0	37.0	32.0	27.5	900	113 E4	R76PR 4150--3--
*1.8µF	22.0	37.0	32.0	27.5	900	113 E4	R76PR 4180--3--
2.2µF	20.0	40.0	41.5	37.5	450	56 E4	R76PW4220--3--
2.7µF	20.0	40.0	41.5	37.5	450	56 E4	R76PW4270--3--
3.3µF	24.0	44.0	41.5	37.5	450	56 E4	R76PW4330--3--

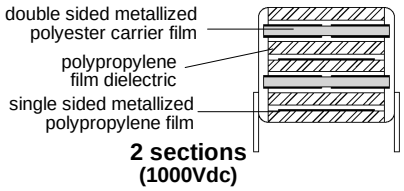
Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

R76

MMKP Series

POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES. D.C. AND PULSE APPLICATIONS

PRODUCT CODE: **R76**



Rated Cap.	1000Vdc / 400Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
470pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD0470--0--
560pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD0560--0--
680pF	3.5	8.5	10.5	7.5	6000	1200 E4	R76QD0680--0--
820pF	3.5	8.5	10.5	7.5	6000	1200 E4	R76QD0820--0--
1000pF	3.5	8.5	10.5	7.5	6000	1200 E4	R76QD1100--0--
1200pF	4.0	9.0	10.5	7.5	6000	1200 E4	R76QD1120--0--
1500pF	5.0	11.0	10.5	7.5	6000	1200 E4	R76QD1150--0--
1800pF	5.0	11.0	10.5	7.5	6000	1200 E4	R76QD1180--0--
2200pF	5.0	11.0	10.5	7.5	6000	1200 E4	R76QD1220--0--
2700pF	6.0	12.0	10.5	7.5	6000	1200 E4	R76QD1270--0--
3300pF	6.0	12.0	10.5	7.5	6000	1200 E4	R76QD1330--0--

Rated Cap.	1000Vdc / 600Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
1000pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1100--0--
1200pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1120--0--
1500pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1150--0--
1800pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1180--0--
2200pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1220--0--
2700pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1270--0--
3300pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF1330--3--
3900pF	5.0	11.0	13.0	10.0	4800	960 E4	R76QF1390--3--
4700pF	5.0	11.0	13.0	10.0	4800	960 E4	R76QF1470--3--
5600pF	6.0	12.0	13.0	10.0	4800	960 E4	R76QF1560--3--
6800pF	6.0	12.0	13.0	10.0	4800	960 E4	R76QF1680--3--
8200pF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 1820--0--
0.010µF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2100--3--
0.012µF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2120--3--
0.015µF	6.0	12.0	18.0	15.0	3300	660 E4	R76QI 2150--3--
0.018µF	7.5	13.5	18.0	15.0	3300	660 E4	R76QI 2180--0--
0.022µF	7.5	13.5	18.0	15.0	3300	660 E4	R76QI 2220--3--
0.022µF	9.0	12.5	18.0	15.0	3300	660 E4	R76QI 2220--7--
0.027µF	8.5	14.5	18.0	15.0	3300	660 E4	R76QI 2270--3--
0.027µF	9.0	12.5	18.0	15.0	3300	660 E4	R76QI 2270--7--
0.033µF	8.5	14.5	18.0	15.0	3300	660 E4	R76QI 2330--3--
0.033µF	13.0	12.0	18.0	15.0	3300	660 E4	R76QI 2330--7--
0.039µF	10.0	16.0	18.0	15.0	3300	660 E4	R76QI 2390--3--
0.047µF	11.0	19.0	18.0	15.0	3300	660 E4	R76QI 2470--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%) for C ⩾1000pF; J (±5%); K (±10%)

Rated Cap.	1000Vdc / 600Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.027µF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2270--0--
0.033µF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2330--3--
0.039µF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2390--3--
0.047µF	7.0	16.0	26.5	22.5	2100	420 E4	R76QN 2470--3--
0.056µF	7.0	16.0	26.5	22.5	2100	420 E4	R76QN 2560--3--
0.068µF	8.5	17.0	26.5	22.5	2100	420 E4	R76QN 2680--3--
0.082µF	10.0	18.5	26.5	22.5	2100	420 E4	R76QN 2820--3--
0.10µF	10.0	18.5	26.5	22.5	2100	420 E4	R76QN 3100--3--
0.12µF	11.0	20.0	26.5	22.5	2100	420 E4	R76QN 3120--3--
0.15µF	13.0	22.0	26.5	22.5	2100	420 E4	R76QN 3150--3--
0.10µF	10.0	20.0	32.0	27.5	1000	200 E4	R76QR 3100--3--
0.12µF	10.0	20.0	32.0	27.5	1000	200 E4	R76QR 3120--3--
0.15µF	11.0	20.0	32.0	27.5	1000	200 E4	R76QR 3150--3--
*0.18µF	13.0	22.0	32.0	27.5	1000	200 E4	R76QR 3180--3--
*0.22µF	13.0	22.0	32.0	27.5	1000	200 E4	R76QR 3220--3--
*0.27µF	15.0	24.5	32.0	27.5	1000	200 E4	R76QR 3270--3--
*0.33µF	14.0	28.0	32.0	27.5	1000	200 E4	R76QR 3330--3--
*0.39µF	18.0	33.0	32.0	27.5	1000	200 E4	R76QR 3390--3--
*0.47µF	18.0	33.0	32.0	27.5	1000	200 E4	R76QR 3470--3--
*0.56µF	22.0	37.0	32.0	27.5	1000	200 E4	R76QR 3560--3--
*0.68µF	22.0	37.0	32.0	27.5	1000	200 E4	R76QR 3680--3--
0.82µF	20.0	40.0	41.5	37.5	500	100 E4	R76QW3820--3--
1.0µF	20.0	40.0	41.5	37.5	500	100 E4	R76QW4100--3--
1.2µF	24.0	44.0	41.5	37.5	500	100 E4	R76QW4120--3--
1.5µF	24.0	44.0	41.5	37.5	500	100 E4	R76QW4150--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

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 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.

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

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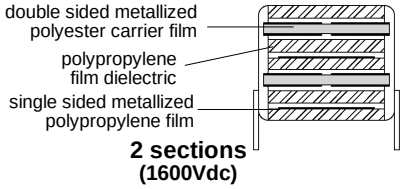
R76

MMKP Series

POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES. D.C. AND PULSE APPLICATIONS

PRODUCT CODE: **R76**



2 sections (1600Vdc)

Rated Cap.	1600Vdc / 650Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
3300pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI 1330--3--
3900pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI 1390--3--
4700pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI 1470--3--
5600pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI 1560--3--
6800pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI 1680--3--
8200pF	6.0	12.0	18.0	15.0	6000	1900 E4	R76TI 1820--3--
0.010µF	6.0	12.0	18.0	15.0	6000	1900 E4	R76TI 2100--3--
0.012µF	7.5	13.5	18.0	15.0	6000	1900 E4	R76TI 2120--3--
0.012µF	9.0	12.5	18.0	15.0	6000	1900 E4	R76TI 2120--7--
0.015µF	7.5	13.5	18.0	15.0	6000	1900 E4	R76TI 2150--3--
0.015µF	9.0	12.5	18.0	15.0	6000	1900 E4	R76TI 2150--7--
0.018µF	8.5	14.5	18.0	15.0	6000	1900 E4	R76TI 2180--3--
0.018µF	9.0	12.5	18.0	15.0	6000	1900 E4	R76TI 2180--7--
0.022µF	8.5	14.5	18.0	15.0	6000	1900 E4	R76TI 2220--3--
0.022µF	13.0	12.0	18.0	15.0	6000	1900 E4	R76TI 2220--7--
0.027µF	10.0	16.0	18.0	15.0	6000	1900 E4	R76TI 2270--3--
0.033µF	11.0	19.0	18.0	15.0	6000	1900 E4	R76TI 2330--3--
0.015µF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN2150--3--
0.018µF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN2180--3--
0.022µF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN2220--3--
0.027µF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN2270--3--
0.033µF	7.0	16.0	26.5	22.5	3000	960 E4	R76TN2330--3--
0.039µF	8.5	17.0	26.5	22.5	3000	960 E4	R76TN2390--3--
0.047µF	10.0	18.5	26.5	22.5	3000	960 E4	R76TN2470--3--
0.056µF	10.0	18.5	26.5	22.5	3000	960 E4	R76TN2560--3--
0.068µF	11.0	20.0	26.5	22.5	3000	960 E4	R76TN2680--3--
0.082µF	11.0	20.0	26.5	22.5	3000	960 E4	R76TN2820--3--
0.10µF	13.0	22.0	26.5	22.5	3000	960 E4	R76TN3100--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

Rated Cap.	1600Vdc / 650Vac				Max dv/dt	Max K_0	Part Number
	B	H	L	p	(V/µs)	(V^2/µs)	
0.039µF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2390--3--
0.047µF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2470--3--
0.056µF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2560--3--
0.068µF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2680--3--
*0.082µF	11.0	20.0	32.0	27.5	2000	640 E4	R76TR 2820--3--
*0.10µF	11.0	20.0	32.0	27.5	2000	640 E4	R76TR 3100--3--
*0.12µF	13.0	22.0	32.0	27.5	2000	640 E4	R76TR 3120--3--
*0.15µF	15.0	24.5	32.0	27.5	2000	640 E4	R76TR 3150--3--
*0.18µF	15.0	24.5	32.0	27.5	2000	640 E4	R76TR 3180--3--
*0.22µF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3220--3--
*0.27µF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3270--3--
*0.33µF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3330--3--
*0.39µF	22.0	37.0	32.0	27.5	2000	640 E4	R76TR 3390--3--
*0.47µF	22.0	37.0	32.0	27.5	2000	640 E4	R76TR 3470--3--
0.56µF	20.0	40.0	41.5	37.5	1200	384 E4	R76TW3560--3--
0.68µF	20.0	40.0	41.5	37.5	1200	384 E4	R76TW3680--3--
0.82µF	24.0	44.0	41.5	37.5	1200	384 E4	R76TW3820--3--
1.0µF	24.0	44.0	41.5	37.5	1200	384 E4	R76TW4100--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

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 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.

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

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R76

MMKP Series

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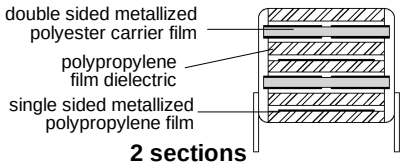
PRODUCT CODE: **R76**



2 sections (2000Vdc)

Rated Cap.	2000Vdc / 700Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
220pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0220--0--
270pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0270--0--
330pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0330--0--
390pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0390--0--
470pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0470--0--
560pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0560--0--
680pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0680--0--
820pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 0820--0--
1000pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1100--3--
1200pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1120--3--
1500pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1150--3--
1800pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1180--3--
2200pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1220--3--
2700pF	5.0	11.0	18.0	15.0	9500	3800 E4	R76UI 1270--3--
3300pF	6.0	12.0	18.0	15.0	9500	3800 E4	R76UI 1330--3--
3900pF	6.0	12.0	18.0	15.0	9500	3800 E4	R76UI 1390--3--
4700pF	6.0	12.0	18.0	15.0	9500	3800 E4	R76UI 1470--3--
5600pF	7.5	13.5	18.0	15.0	9500	3800 E4	R76UI 1560--3--
5600pF	9.0	12.5	18.0	15.0	9500	3800 E4	R76UI 1560--7--
6800pF	7.5	13.5	18.0	15.0	9500	3800 E4	R76UI 1680--3--
6800pF	9.0	12.5	18.0	15.0	9500	3800 E4	R76UI 1680--7--
8200pF	8.5	14.5	18.0	15.0	9500	3800 E4	R76UI 1820--3--
8200pF	9.0	12.5	18.0	15.0	9500	3800 E4	R76UI 1820--7--
0.010µF	10.0	16.0	18.0	15.0	9500	3800 E4	R76UI 2100--3--
0.010µF	13.0	12.0	18.0	15.0	9500	3800 E4	R76UI 2100--7--
0.012µF	10.0	16.0	18.0	15.0	9500	3800 E4	R76UI 2120--3--
0.015µF	11.0	19.0	18.0	15.0	9500	3800 E4	R76UI 2150--3--
1000pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1100--0--
1200pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1120--0--
1500pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1150--0--
1800pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1180--0--
2200pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1220--0--
2700pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1270--0--
3300pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1330--0--
3900pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1390--0--
4700pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1470--0--
5600pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1560--0--
6800pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1680--0--
8200pF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN1820--3--
0.010µF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN2100--3--
0.012µF	6.0	15.0	26.5	22.5	3500	1400 E4	R76UN2120--3--
0.015µF	7.0	16.0	26.5	22.5	3500	1400 E4	R76UN2150--3--
0.018µF	7.0	16.0	26.5	22.5	3500	1400 E4	R76UN2180--3--
0.022µF	8.5	17.0	26.5	22.5	3500	1400 E4	R76UN2220--3--
0.027µF	10.0	18.5	26.5	22.5	3500	1400 E4	R76UN2270--3--
0.033µF	10.0	18.5	26.5	22.5	3500	1400 E4	R76UN2330--3--
0.039µF	11.0	20.0	26.5	22.5	3500	1400 E4	R76UN2390--3--
0.047µF	13.0	22.0	26.5	22.5	3500	1400 E4	R76UN2470--3--
0.056µF	13.0	22.0	26.5	22.5	3500	1400 E4	R76UN2560--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

Rated Cap.	2000Vdc / 700Vac B	H	L	p	Max dv/dt (V/µs)	Max K_0 (V^2/µs)	Part Number
0.022µF	9.0	17.0	32.0	27.5	2300	920 E4	R76UR 2220--3--
0.027µF	9.0	17.0	32.0	27.5	2300	920 E4	R76UR 2270--3--
*0.033µF	9.0	17.0	32.0	27.5	2300	920 E4	R76UR 2330--3--
*0.039µF	10.0	20.0	32.0	27.5	2300	920 E4	R76UR 2390--3--
*0.047µF	11.0	20.0	32.0	27.5	2300	920 E4	R76UR 2470--3--
*0.056µF	13.0	22.0	32.0	27.5	2300	920 E4	R76UR 2560--3--
*0.068µF	13.0	22.0	32.0	27.5	2300	920 E4	R76UR 2680--3--
*0.082µF	15.0	24.5	32.0	27.5	2300	920 E4	R76UR 2820--3--
*0.10µF	14.0	28.0	32.0	27.5	2300	920 E4	R76UR 3100--3--
*0.12µF	18.0	33.0	32.0	27.5	2300	920 E4	R76UR 3120--3--
*0.15µF	18.0	33.0	32.0	27.5	2300	920 E4	R76UR 3150--3--
*0.18µF	22.0	37.0	32.0	27.5	2300	920 E4	R76UR 3180--3--
*0.22µF	22.0	37.0	32.0	27.5	2300	920 E4	R76UR 3220--3--
0.27µF	20.0	40.0	41.5	37.5	1500	600 E4	R76UW3270--3--
0.33µF	20.0	40.0	41.5	37.5	1500	600 E4	R76UW3330--3--
0.39µF	24.0	44.0	41.5	37.5	1500	600 E4	R76UW3390--3--
0.47µF	24.0	44.0	41.5	37.5	1500	600 E4	R76UW3470--3--

Mechanical version and packaging (Table 1)
Internal use
Tolerance: H (±2.5%); J (±5%); K (±10%)

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 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.

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

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R76

MMKP Series

POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES D.C. AND PULSE APPLICATIONS

PRODUCT CODE: **R76**

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R):
250Vdc - 400Vdc - 630Vdc for 1 section
630Vdc - 1000Vdc - 1600Vdc - 2000Vdc for 2 sections.

Rated temperature (T_R):
+85°C for V_R (d.c.)
+75°C for V_R (a.c.)

Temperature derated voltage:
The following decreasing factor has to be applied on the rated voltage:
+85°C to +105°C: 1.25% per °C for V_R (d.c.)
+75°C to +105°C: 1.35% per °C for V_R (a.c.)

Capacitance range:
680pF to 10µF 1 section
220pF to 3.3µF 2 sections

Capacitance values:
E12 series (IEC 60063 Norm).

Capacitance tolerances (measured at 1 kHz)**:**
±5% (J); ±10% (K) for C < 1000pF
±2.5% (H); ±5% (J); ±10% (K) for C ≥ 1000pF

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

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

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

kHz	C ≤ 0.1µF	0.1µF < C ≤ 1.0µF	C > 1µF
1	≤ 3	≤ 3	≤ 4
10	≤ 4	≤ 6	
100	≤ 15		

Insulation resistance:

Test conditions
Temperature: +25°C ± 5°C
Voltage charge time: 1 min
Voltage charge: 100Vdc

Performance
≥ 1×10^5 MΩ for C ≤ 0.33µF (5×10^5 MΩ)*
≥ 30000 s for C > 0.33µF (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 |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: $1.25 \times V_R$ (d.c.)

Performance
Capacitance change |ΔC/C|: ≤ 2%
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.

Performance
Capacitance change |ΔC/C|: ≤ 0.5%

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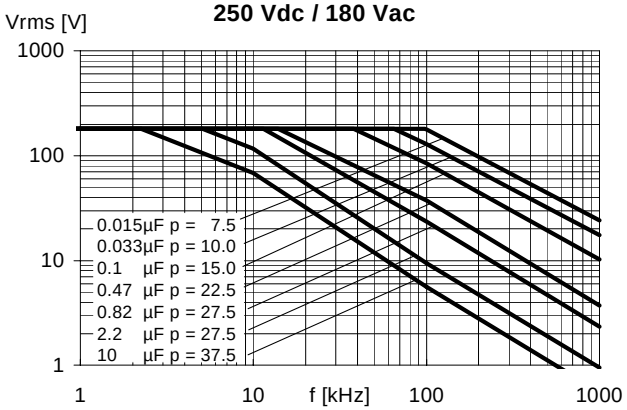
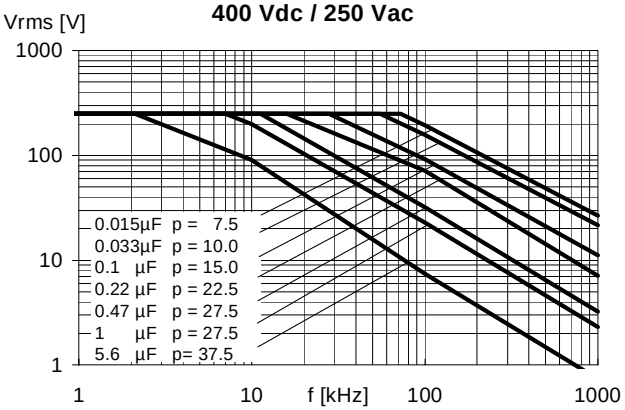
POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES D.C. AND PULSE APPLICATIONS

MAX. VOLTAGE (Vr.m.s.) VERSUS FREQUENCY (sinusoidal wave-form / $T_h \leq 40°C$)

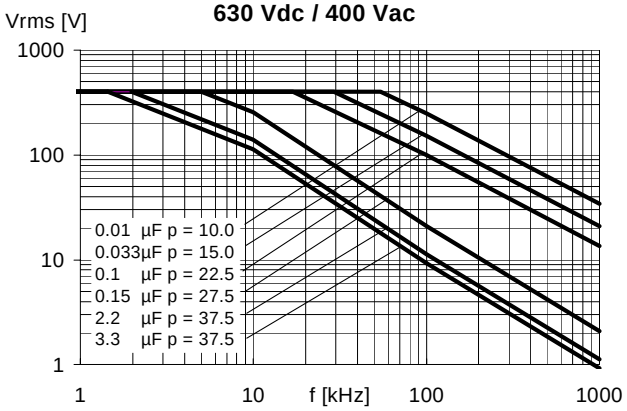
250 Vdc / 180 Vac



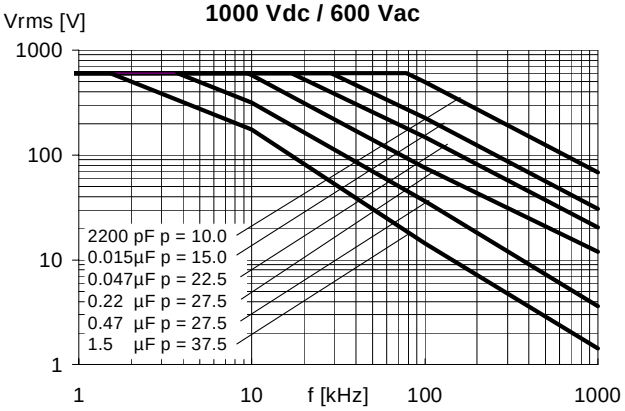
400 Vdc / 250 Vac



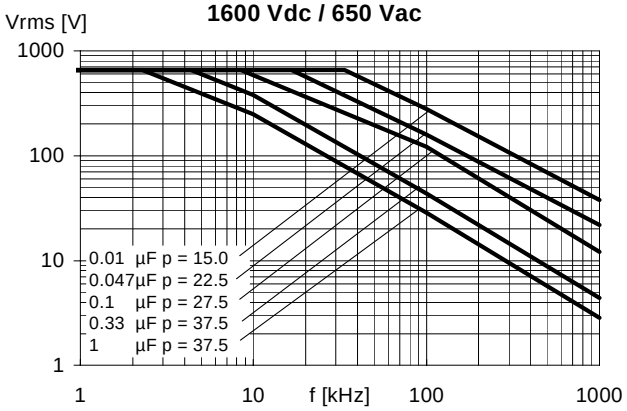
630 Vdc / 400 Vac



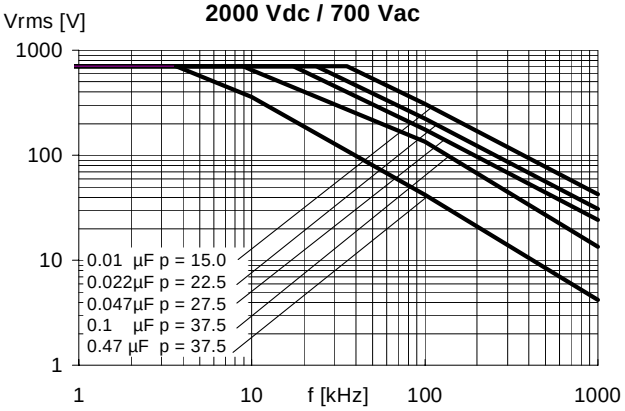
1000 Vdc / 600 Vac



1600 Vdc / 650 Vac



2000 Vdc / 700 Vac



Note: p (pitch) in mm.

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