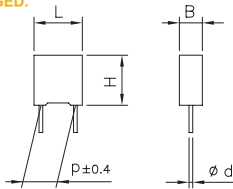
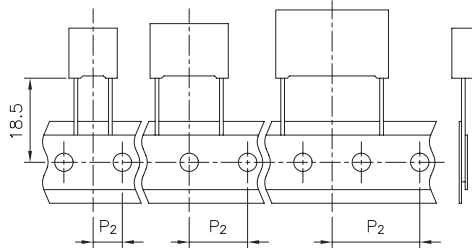


Loose



Taped

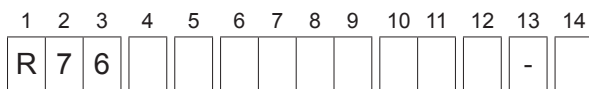


	p = 7.5	p = 10	15 ≤ p ≤ 27.5	p = 37.5
B	≤3,5 >3,5	all	all	all
Ød±0.05	0.5 0.6	0.6	0.8	1.0

All dimensions are in mm.

**PRODUCT CODE SYSTEM**

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



- 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; l=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%

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

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

Note: Ammo-pack is the preferred packaging for taped version  
09/2008

**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**

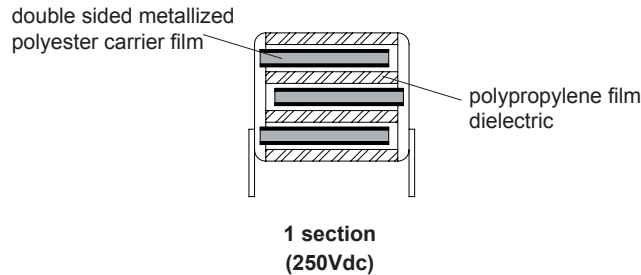
Pitch (mm)	Box thickness (mm)	Maximum dimensions (mm)		
		B max	H max	L max
7.5	All	B +0.1	H +0.1	L +0.2
10.0	All	B +0.2	H +0.1	L +0.2
15.0	<7.5	B +0.2	H +0.1	L +0.3
15.0	≥7.5	B +0.2	H +0.1	L +0.5
22.5	All	B +0.2	H +0.1	L +0.3
27.5	All	B +0.2	H +0.1	L +0.3
37.5	All	B +0.3	H +0.1	L +0.3

**GENERAL TECHNICAL DATA**

- Dielectric:** polypropylene film.
- Plates:** double sided metallized polyester film.
- Winding:** non-inductive type.
- Leads:** for Ø ≥ 0,6mm : tinned wire  
for Ø = 0,5mm : tinned wire, low thermal conductivity
- Protection:** plastic case, thermosetting resin filled.  
Box material is solvent resistant and flame retardant according to UL94 V0.
- Marking:** manufacturer's logo, series (R76), 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

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

PRODUCT CODE: R76



Rated Cap.	250Vdc / 180Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
6800 pF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID1680--3--
8200 pF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID1820--3--
0.010 μF	3.0	8.0	10.0	7.5	1100	55 E4	R76ID2100--3--
0.012 μF	4.0	9.0	10.0	7.5	1100	55 E4	R76ID2120--4--
0.015 μF	4.0	9.0	10.0	7.5	1100	55 E4	R76ID2150--4--
0.018 μF	4.0	9.0	10.0	7.5	1100	55 E4	R76ID2180--4--
0.022 μF	4.0	9.0	10.0	7.5	1100	55 E4	R76ID2220--4--
0.027 μF	5.0	10.5	10.0	7.5	1100	55 E4	R76ID2270--4--
0.033 μF	5.0	10.5	10.0	7.5	1100	55 E4	R76ID2330--4--
0.039 μF	6.0	12.0	10.5	7.5	1100	55 E4	R76ID2390--3--
0.047 μF	6.0	12.0	10.5	7.5	1100	55 E4	R76ID2470--3--
0.027 μF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF 2270--3--
0.033 μF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF 2330--3--
0.039 μF	4.0	9.0	13.0	10.0	1000	50 E4	R76IF 2390--3--
0.047 μF	5.0	11.0	13.0	10.0	1000	50 E4	R76IF 2470--3--
0.056 μF	5.0	11.0	13.0	10.0	1000	50 E4	R76IF 2560--3--
0.068 μF	6.0	12.0	13.0	10.0	1000	50 E4	R76IF 2680--3--
0.082 μF	6.0	12.0	13.0	10.0	1000	50 E4	R76IF 2820--3--
0.068 μF	5.0	11.0	18.0	15.0	550	28 E4	R76II 2680--3--
0.082 μF	5.0	11.0	18.0	15.0	550	28 E4	R76II 2820--3--
0.10 μF	5.0	11.0	18.0	15.0	550	28 E4	R76II 3100--3--
0.12 μF	6.0	12.0	18.0	15.0	550	28 E4	R76II 3120--3--
0.15 μF	6.0	12.0	18.0	15.0	550	28 E4	R76II 3150--3--
0.18 μF	7.5	13.5	18.0	15.0	550	28 E4	R76II 3180--3--
0.18 μF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3180--7--
0.22 μF	7.5	13.5	18.0	15.0	550	28 E4	R76II 3220--3--
0.22 μF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3220--7--
0.27 μF	8.5	14.5	18.0	15.0	550	28 E4	R76II 3270--3--
0.27 μF	9.0	12.5	18.0	15.0	550	28 E4	R76II 3270--7--
0.33 μF	10.0	16.0	18.0	15.0	550	28 E4	R76II 3330--3--
0.33 μF	13.0	12.0	18.0	15.0	550	28 E4	R76II 3330--7--
0.39 μF	10.0	16.0	18.0	15.0	550	28 E4	R76II 3390--3--
0.47 μF	11.0	19.0	18.0	15.0	550	28 E4	R76II 3470--3--

Rated Cap.	250Vdc / 180Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.22 μF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3220--0--
0.27 μF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3270--3--
0.33 μF	6.0	15.0	26.5	22.5	250	13 E4	R76IN 3330--3--
0.39 μF	7.0	16.0	26.5	22.5	250	13 E4	R76IN 3390--3--
0.47 μF	7.0	16.0	26.5	22.5	250	13 E4	R76IN 3470--3--
0.56 μF	8.5	17.0	26.5	22.5	250	13 E4	R76IN 3560--3--
0.68 μF	10.0	18.5	26.5	22.5	250	13 E4	R76IN 3680--3--
0.82 μF	10.0	18.5	26.5	22.5	250	13 E4	R76IN 3820--3--
1.0 μF	11.0	20.0	26.5	22.5	250	13 E4	R76IN 4100--3--
1.2 μF	13.0	22.0	26.5	22.5	250	13 E4	R76IN 4120--3--
0.82 μF	9.0	17.0	32.0	27.5	200	10 E4	R76IR 3820--3--
1.0 μF	11.0	20.0	32.0	27.5	200	10 E4	R76IR 4100--3--
1.2 μF	11.0	20.0	32.0	27.5	200	10 E4	R76IR 4120--4--
1.5 μF	13.0	22.0	32.0	27.5	200	10 E4	R76IR 4150--3--
1.8 μF	13.0	22.0	32.0	27.5	200	10 E4	R76IR 4180--4--
2.2 μF	14.0	28.0	32.0	27.5	200	10 E4	R76IR 4220--4--
2.7 μF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4270--3--
3.3 μF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4330--3--
3.9 μF	18.0	33.0	32.0	27.5	200	10 E4	R76IR 4390--3--
4.7 μF	22.0	37.0	32.0	27.5	200	10 E4	R76IR 4470--3--
5.6 μF	22.0	37.0	32.0	27.5	200	10 E4	R76IR 4560--4--
1.2 μF	11.0	22.0	41.5	37.5	100	5 E4	R76IW4120--3--
1.5 μF	11.0	22.0	41.5	37.5	100	5 E4	R76IW4150--3--
1.8 μF	11.0	22.0	41.5	37.5	100	5 E4	R76IW4180--3--
2.2 μF	13.0	24.0	41.5	37.5	100	5 E4	R76IW4220--3--
2.7 μF	13.0	24.0	41.5	37.5	100	5 E4	R76IW4270--3--
3.3 μF	16.0	28.5	41.5	37.5	100	5 E4	R76IW4330--3--
3.9 μF	16.0	28.5	41.5	37.5	100	5 E4	R76IW4390--3--
4.7 μF	19.0	32.0	41.5	37.5	100	5 E4	R76IW4470--3--
5.6 μF	19.0	32.0	41.5	37.5	100	5 E4	R76IW4560--3--
6.8 μF	20.0	40.0	41.5	37.5	100	5 E4	R76IW4680--3--
8.2 μF	20.0	40.0	41.5	37.5	100	5 E4	R76IW4820--3--
10.0 μF	24.0	44.0	41.5	37.5	100	5 E4	R76IW5100--3--
12.0 μF	30.0	45.0	41.5	37.5	100	5 E4	R76IW5120--3--
15.0 μF	30.0	45.0	41.5	37.5	100	5 E4	R76IW5150--3--

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

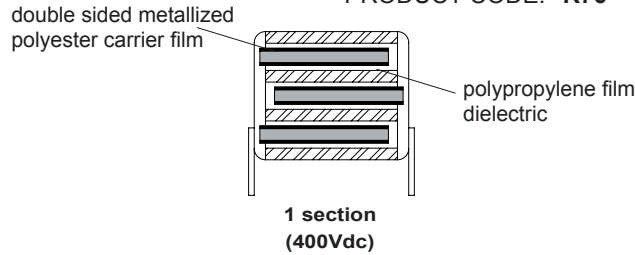
Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: J (±5%); K (±10%) \_\_\_\_\_

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), 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<sub>R</sub>/V.  
The pulse characteristic K<sub>0</sub> 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.

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

PRODUCT CODE: **R76**



Rated Cap.	400Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
2700 pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1270--3--
3300 pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1330--3--
3900 pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1390--3--
4700 pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1470--3--
5600 pF	3.0	8.0	10.0	7.5	1700	136 E4	R76MD1560--3--
6800 pF	4.0	9.0	10.0	7.5	1700	136 E4	R76MD1680--4--
8200 pF	4.0	9.0	10.0	7.5	1700	136 E4	R76MD1820--4--
0.010 μF	4.0	9.0	10.0	7.5	1700	136 E4	R76MD2100--4--
0.012 μF	4.0	9.0	10.0	7.5	1700	136 E4	R76MD2120--4--
0.015 μF	5.0	10.5	10.0	7.5	1700	136 E4	R76MD2150--4--
0.018 μF	5.0	10.5	10.0	7.5	1700	136 E4	R76MD2180--4--
0.022 μF	6.0	12.0	10.5	7.5	1700	136 E4	R76MD2220--3--
0.027 μF	6.0	12.0	10.5	7.5	1700	136 E4	R76MD2270--3--
0.010 μF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2100--0--
0.012 μF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2120--0--
0.015 μF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2150--3--
0.018 μF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2180--3--
0.022 μF	4.0	9.0	13.0	10.0	1500	120 E4	R76MF 2220--3--
0.027 μF	5.0	11.0	13.0	10.0	1500	120 E4	R76MF 2270--3--
0.033 μF	5.0	11.0	13.0	10.0	1500	120 E4	R76MF 2330--3--
0.039 μF	6.0	12.0	13.0	10.0	1500	120 E4	R76MF 2390--3--
0.047 μF	6.0	12.0	13.0	10.0	1500	120 E4	R76MF 2470--3--
0.033 μF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2330--0--
0.039 μF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2390--3--
0.047 μF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2470--3--
0.056 μF	5.0	11.0	18.0	15.0	900	72 E4	R76MI 2560--3--
0.068 μF	6.0	12.0	18.0	15.0	900	72 E4	R76MI 2680--3--
0.082 μF	6.0	12.0	18.0	15.0	900	72 E4	R76MI 2820--3--
0.10 μF	7.5	13.5	18.0	15.0	900	72 E4	R76MI 3100--3--
0.10 μF	9.0	12.5	18.0	15.0	900	72 E4	R76MI 3100--7--
0.12 μF	7.5	13.5	18.0	15.0	900	72 E4	R76MI 3120--3--
0.12 μF	9.0	12.5	18.0	15.0	900	72 E4	R76MI 3120--7--
0.15 μF	8.5	14.5	18.0	15.0	900	72 E4	R76MI 3150--3--
0.15 μF	13.0	12.0	18.0	15.0	900	72 E4	R76MI 3150--7--
0.18 μF	10.0	16.0	18.0	15.0	900	72 E4	R76MI 3180--3--
0.18 μF	13.0	12.0	18.0	15.0	900	72 E4	R76MI 3180--7--
0.22 μF	10.0	16.0	18.0	15.0	900	72 E4	R76MI 3220--3--
0.27 μF	11.0	19.0	18.0	15.0	900	72 E4	R76MI 3270--3--

Rated Cap.	400Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.12 μF	6.0	15.0	26.5	22.5	500	40 E4	R76MN3120--3--
0.15 μF	6.0	15.0	26.5	22.5	500	40 E4	R76MN 3150--3--
0.18 μF	6.0	15.0	26.5	22.5	500	40 E4	R76MN 3180--3--
0.22 μF	7.0	16.0	26.5	22.5	500	40 E4	R76MN 3220--3--
0.27 μF	8.5	17.0	26.5	22.5	500	40 E4	R76MN 3270--3--
0.33 μF	8.5	17.0	26.5	22.5	500	40 E4	R76MN 3330--3--
0.39 μF	10.0	18.5	26.5	22.5	500	40 E4	R76MN 3390--3--
0.47 μF	10.0	18.5	26.5	22.5	500	40 E4	R76MN 3470--3--
0.56 μF	11.0	20.0	26.5	22.5	500	40 E4	R76MN 3560--3--
0.68 μF	13.0	22.0	26.5	22.5	500	40 E4	R76MN 3680--3--
0.39 μF	9.0	17.0	32.0	27.5	300	24 E4	R76MR 3390--3--
0.47 μF	9.0	17.0	32.0	27.5	300	24 E4	R76MR 3470--3--
0.56 μF	11.0	20.0	32.0	27.5	300	24 E4	R76MR 3560--3--
0.68 μF	11.0	20.0	32.0	27.5	300	24 E4	R76MR 3680--3--
0.82 μF	13.0	22.0	32.0	27.5	300	24 E4	R76MR 3820--3--
1.0 μF	13.0	22.0	32.0	27.5	300	24 E4	R76MR 4100--4--
1.2 μF	14.0	28.0	32.0	27.5	300	24 E4	R76MR 4120--4--
1.5 μF	18.0	33.0	32.0	27.5	300	24 E4	R76MR 4150--3--
1.8 μF	18.0	33.0	32.0	27.5	300	24 E4	R76MR 4180--3--
2.2 μF	22.0	37.0	32.0	27.5	300	24 E4	R76MR 4220--3--
2.7 μF	22.0	37.0	32.0	27.5	300	24 E4	R76MR 4270--3--
1.0 μF	11.0	22.0	41.5	37.5	180	14 E4	R76MW4100--3--
1.2 μF	13.0	24.0	41.5	37.5	180	14 E4	R76MW4120--3--
1.5 μF	13.0	24.0	41.5	37.5	180	14 E4	R76MW4150--3--
1.8 μF	16.0	28.5	41.5	37.5	180	14 E4	R76MW4180--3--
2.2 μF	19.0	32.0	41.5	37.5	180	14 E4	R76MW4220--3--
2.7 μF	19.0	32.0	41.5	37.5	180	14 E4	R76MW4270--3--
3.3 μF	19.0	32.0	41.5	37.5	180	14 E4	R76MW4330--3--
3.9 μF	20.0	40.0	41.5	37.5	180	14 E4	R76MW4390--3--
4.7 μF	20.0	40.0	41.5	37.5	180	14 E4	R76MW4470--3--
5.6 μF	24.0	44.0	41.5	37.5	180	14 E4	R76MW4560--3--
6.8 μF	30.0	45.0	41.5	37.5	180	14 E4	R76MW4680--3--
8.2 μF	30.0	45.0	41.5	37.5	180	14 E4	R76MW4820--3--

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

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

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), 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<sub>R</sub>/V.

The pulse characteristic K<sub>0</sub> 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 cross-the-line applications. Please refer to Interference Suppression Capacitors (page 145).

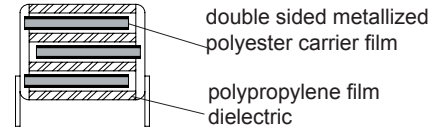
**POLYPROPYLENE CAPACITOR WITH DOUBLE SIDED METALLIZED FILM ELECTRODES D.C. AND PULSE APPLICATIONS**

PRODUCT CODE: **R76**

Rated Cap.	630Vdc/250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
680 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD0680--0--
820 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD0820--0--
1000 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1100--0--
1200 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1120--0--
1500 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1150--0--
1800 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1180--0--
2200 pF	3.0	8.0	10.0	7.5	2800	353 E4	R76PD1220--0--
2700 pF	4.0	9.0	10.0	7.5	2800	353 E4	R76PD1270--4--
3300 pF	4.0	9.0	10.0	7.5	2800	355 E4	R76PD1330--4--
3900 pF	4.0	9.0	10.0	7.5	2800	353 E4	R76PD1390--4--
4700 pF	4.0	9.0	10.0	7.5	2800	353 E4	R76PD1470--4--
5600 pF	4.0	9.0	10.0	7.5	2800	353 E4	R76PD1560--4--
6800 pF	5.0	10.5	10.0	7.5	2800	353 E4	R76PD1680--4--
8200 pF	5.0	10.5	10.0	7.5	2800	353 E4	R76PD1820--4--
0.010 μF	6.0	12.0	10.5	7.5	2800	353 E4	R76PD2100--3--
0.012 μF	6.0	12.0	10.5	7.5	2800	353 E4	R76PD2120--3--

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

**1 section  
(630Vdc/250Vac)**



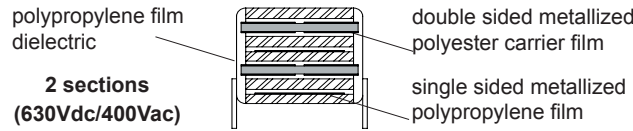
All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), 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<sub>R</sub>/V.  
 The pulse characteristic K<sub>0</sub> 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 (page145)

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

PRODUCT CODE: **R76**



Rated Cap.	630Vdc / 400Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
3900 pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1390--0--
4700 pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1470--0--
5600 pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1560--0--
6800 pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1680--0--
8200 pF	4.0	9.0	13.0	10.0	3000	378 E4	R76PF1820--0--
0.010 μF	5.0	11.0	13.0	10.0	3000	378 E4	R76PF2100--3--
0.012 μF	5.0	11.0	13.0	10.0	3000	378 E4	R76PF2120--3--
0.015 μF	6.0	12.0	13.0	10.0	3000	378 E4	R76PF2150--3--
0.018 μF	6.0	12.0	13.0	10.0	3000	378 E4	R76PF2180--3--
0.012 μF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2120--0--
0.015 μF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2150--0--
0.018 μF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2180--0--
0.022 μF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2220--3--
0.027 μF	5.0	11.0	18.0	15.0	2500	315 E4	R76PI 2270--3--
0.033 μF	6.0	12.0	18.0	15.0	2500	315 E4	R76PI 2330--3--
0.039 μF	6.0	12.0	18.0	15.0	2500	315 E4	R76PI 2390--3--
0.047 μF	7.5	13.5	18.0	15.0	2500	315 E4	R76PI 2470--3--
0.047 μF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2470--7--
0.056 μF	7.5	13.5	18.0	15.0	2500	315 E4	R76PI 2560--3--
0.056 μF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2560--7--
0.068 μF	8.5	14.5	18.0	15.0	2500	315 E4	R76PI 2680--3--
0.068 μF	9.0	12.5	18.0	15.0	2500	315 E4	R76PI 2680--7--
0.082 μF	8.5	14.5	18.0	15.0	2500	315 E4	R76PI 2820--3--
0.082 μF	13.0	12.0	18.0	15.0	2500	315 E4	R76PI 2820--7--
0.10 μF	10.0	16.0	18.0	15.0	2500	315 E4	R76PI 3100--3--
0.12 μF	11.0	19.0	18.0	15.0	2500	315 E4	R76PI 3120--3--
0.047 μF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2470--0--
0.056 μF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2560--0--
0.068 μF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2680--0--
0.082 μF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 2820--3--
0.10 μF	6.0	15.0	26.5	22.5	1500	189 E4	R76PN 3100--3--
0.12 μF	7.0	16.0	26.5	22.5	1500	189 E4	R76PN 3120--3--
0.15 μF	8.5	17.0	26.5	22.5	1500	189 E4	R76PN 3150--3--
0.18 μF	8.5	17.0	26.5	22.5	1500	189 E4	R76PN 3180--3--
0.22 μF	10.0	18.5	26.5	22.5	1500	189 E4	R76PN 3220--3--
0.27 μF	11.0	20.0	26.5	22.5	1500	189 E4	R76PN 3270--3--
0.33 μF	11.0	20.0	26.5	22.5	1500	189 E4	R76PN 3330--3--
0.39 μF	13.0	22.0	26.5	22.5	1500	189 E4	R76PN 3390--3--

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

Rated Cap.	630Vdc / 400Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.15 μF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3150--3--
0.18 μF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3180--3--
0.22 μF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3220--3--
0.27 μF	9.0	17.0	32.0	27.5	900	113 E4	R76PR 3270--3--
0.33 μF	11.0	20.0	32.0	27.5	900	113 E4	R76PR 3330--4--
0.39 μF	11.0	20.0	32.0	27.5	900	113 E4	R76PR 3390--3--
0.47 μF	13.0	22.0	32.0	27.5	900	113 E4	R76PR 3470--3--
0.56 μF	13.0	22.0	32.0	27.5	900	113 E4	R76PR 3560--3--
0.68 μF	13.0	25.0	32.0	27.5	900	113 E4	R76PR 3680--4--
0.82 μF	14.0	28.0	32.0	27.5	900	113 E4	R76PR 3820--3--
1.0 μF	18.0	33.0	32.0	27.5	900	113 E4	R76PR 4100--3--
1.2 μF	18.0	33.0	32.0	27.5	900	113 E4	R76PR 4120--3--
1.5 μF	22.0	37.0	32.0	27.5	900	113 E4	R76PR 4150--3--
1.8 μF	22.0	37.0	32.0	27.5	900	113 E4	R76PR 4180--3--
0.33 μF	11.0	22.0	41.5	37.5	450	56 E4	R76PW3330--3--
0.39 μF	11.0	22.0	41.5	37.5	450	56 E4	R76PW3390--3--
0.47 μF	11.0	22.0	41.5	37.5	450	56 E4	R76PW3470--3--
0.56 μF	11.0	22.0	41.5	37.5	450	56 E4	R76PW3560--3--
0.68 μF	11.0	22.0	41.5	37.5	450	56 E4	R76PW3680--3--
0.82 μF	13.0	24.0	41.5	37.5	450	56 E4	R76PW3820--3--
1.0 μF	16.0	28.5	41.5	37.5	450	56 E4	R76PW4100--3--
1.2 μF	16.0	28.5	41.5	37.5	450	56 E4	R76PW4120--3--
1.5 μF	16.0	28.5	41.5	37.5	450	56 E4	R76PW4150--3--
1.8 μF	19.0	32.0	41.5	37.5	450	56 E4	R76PW4180--3--
2.2 μF	20.0	40.0	41.5	37.5	450	56 E4	R76PW4220--3--
2.7 μF	20.0	40.0	41.5	37.5	450	56 E4	R76PW4270--3--
3.3 μF	24.0	44.0	41.5	37.5	450	56 E4	R76PW4330--3--
3.9 μF	30.0	45.0	41.5	37.5	450	56 E4	R76PW4390--3--
4.7 μF	30.0	45.0	41.5	37.5	450	56 E4	R76PW4470--3--
5.6 μF	30.0	45.0	41.5	37.5	450	56 E4	R76PW4560--3--

Mechanical version and packaging (Table1) \_\_\_\_\_  
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<sub>R</sub>), 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<sub>R</sub>/V.

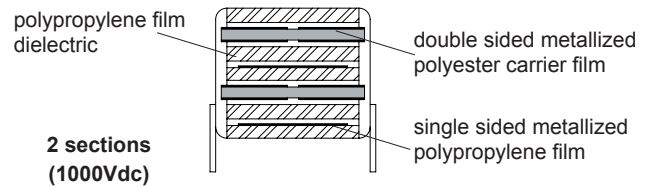
The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

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

PRODUCT CODE: **R76**

Rated Cap.	1000Vdc / 400Vac Std dimensions				Max dv/dt (V/ $\mu$ s)	Max $K_0$ ( $V^2/\mu$ s)	Part Number
	B	H	L	p			
220 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0220--0--
270 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0270--0--
330 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0330--0--
390 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0390--0--
470 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0470--0--
560 pF	3.0	8.0	10.0	7.5	6000	1200 E4	R76QD 0560--0--
680 pF	4.0	9.0	10.0	7.5	6000	1200 E4	R76QD 0680--4--
820 pF	4.0	9.0	10.0	7.5	6000	1200 E4	R76QD 0820--4--
1000 pF	4.0	9.0	10.0	7.5	6000	1200 E4	R76QD 1100--4--
1200 pF	4.0	9.0	10.0	7.5	6000	1200 E4	R76QD 1120--4--
1500 pF	5.0	10.5	10.0	7.5	6000	1200 E4	R76QD 1150--4--
1800 pF	5.0	10.5	10.0	7.5	6000	1200 E4	R76QD 1180--4--
2200 pF	5.0	10.5	10.0	7.5	6000	1200 E4	R76QD 1220--4--
2700 pF	6.0	12.0	10.5	7.5	6000	1200 E4	R76QD 1270--0--
3300 pF	6.0	12.0	10.5	7.5	6000	1200 E4	R76QD 1330--0--

Mechanical version and packaging (Table1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: H ( $\pm 2.5\%$ )\*; J ( $\pm 5\%$ ); K ( $\pm 10\%$ ) \_\_\_\_\_



All dimensions are in mm.

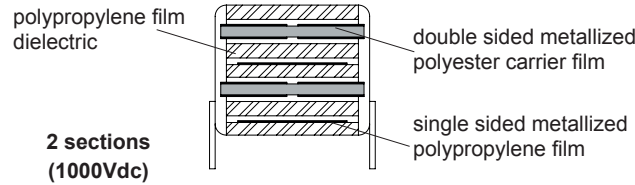
Note: If the working voltage (V) is lower than the rated voltage ( $V_R$ ), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio  $V_R/V$ . The pulse characteristic  $K_0$  depends on the voltage waveform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

\* Tolerance H (+2.5%) for  $C \geq 1000\text{pF}$



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

PRODUCT CODE: **R76**



Rated Cap.	1000Vdc / 600Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
470 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 0470--0--
560 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 0560--0--
680 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 0680--0--
820 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 0820--0--
1000 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1100--0--
1200 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1120--0--
1500 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1150--0--
1800 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1180--0--
2200 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1220--0--
2700 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1270--0--
3300 pF	4.0	9.0	13.0	10.0	4800	960 E4	R76QF 1330--3--
3900 pF	5.0	11.0	13.0	10.0	4800	960 E4	R76QF 1390--3--
4700 pF	5.0	11.0	13.0	10.0	4800	960 E4	R76QF 1470--3--
5600 pF	6.0	12.0	13.0	10.0	4800	960 E4	R76QF 1560--3--
6800 pF	6.0	12.0	13.0	10.0	4800	960 E4	R76QF 1680--3--
8200 pF	4.0	10.0	18.0	15.0	3300	660 E4	R76QI 1820--4--
8200 pF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 1820--0--
0.010 μF	4.0	10.0	18.0	15.0	3300	660 E4	R76QI 2100--4--
0.010 μF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2100--3--
0.012 μF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2120--3--
0.015 μF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2150--4--
0.018 μF	5.0	11.0	18.0	15.0	3300	660 E4	R76QI 2180--4--
0.022 μF	6.0	12.0	18.0	15.0	3300	660 E4	R76QI 2220--4--
0.022 μF	9.0	12.5	18.0	15.0	3300	660 E4	R76QI 2220--7--
0.027 μF	7.5	13.5	18.0	15.0	3300	660 E4	R76QI 2270--4--
0.027 μF	9.0	12.5	18.0	15.0	3300	660 E4	R76QI 2270--7--
0.033 μF	7.5	13.5	18.0	15.0	3300	660 E4	R76QI 2330--4--
0.033 μF	13.0	12.0	18.0	15.0	3300	660 E4	R76QI 2330--7--
0.039 μF	8.5	14.5	18.0	15.0	3300	660 E4	R76QI 2390--4--
0.047 μF	8.5	14.5	18.0	15.0	3300	660 E4	R76QI 2470--4--
0.027 μF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2270--0--
0.033 μF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2330--3--
0.039 μF	6.0	15.0	26.5	22.5	2100	420 E4	R76QN 2390--3--
0.047 μF	7.0	16.0	26.5	22.5	2100	420 E4	R76QN 2470--3--
0.056 μF	7.0	16.0	26.5	22.5	2100	420 E4	R76QN 2560--3--
0.068 μF	8.5	17.0	26.5	22.5	2100	420 E4	R76QN 2680--3--
0.082 μF	10.0	18.5	26.5	22.5	2100	420 E4	R76QN 2820--3--
0.10 μF	10.0	18.5	26.5	22.5	2100	420 E4	R76QN 3100--3--
0.12 μF	11.0	20.0	26.5	22.5	2100	420 E4	R76QN 3120--3--
0.15 μF	13.0	22.0	26.5	22.5	2100	420 E4	R76QN 3150--3--

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%)\*; J (±5%); K (±10%) \_\_\_\_\_

Rated Cap.	1000Vdc / 600Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.10 μF	9.0	17.0	32.0	27.5	1000	200 E4	R76QR 3100--4--
0.12 μF	9.0	17.0	32.0	27.5	1000	200 E4	R76QR 3120--4--
0.15 μF	11.0	20.0	32.0	27.5	1000	200 E4	R76QR 3150--3--
0.18 μF	13.0	22.0	32.0	27.5	1000	200 E4	R76QR 3180--3--
0.22 μF	13.0	22.0	32.0	27.5	1000	200 E4	R76QR 3220--3--
0.27 μF	13.0	25.0	32.0	27.5	1000	200 E4	R76QR 3270--4--
0.33 μF	14.0	28.0	32.0	27.5	1000	200 E4	R76QR 3330--3--
0.39 μF	18.0	33.0	32.0	27.5	1000	200 E4	R76QR 3390--3--
0.47 μF	18.0	33.0	32.0	27.5	1000	200 E4	R76QR 3470--3--
0.56 μF	22.0	37.0	32.0	27.5	1000	200 E4	R76QR 3560--3--
0.68 μF	22.0	37.0	32.0	27.5	1000	200 E4	R76QR 3680--3--
0.18 μF	11.0	22.0	41.5	37.5	500	100 E4	R76QW 3180--3--
0.22 μF	11.0	22.0	41.5	37.5	500	100 E4	R76QW 3220--3--
0.27 μF	13.0	24.0	41.5	37.5	500	100 E4	R76QW 3270--3--
0.33 μF	13.0	24.0	41.5	37.5	500	100 E4	R76QW 3330--3--
0.39 μF	16.0	28.5	41.5	37.5	500	100 E4	R76QW 3390--3--
0.47 μF	16.0	28.5	41.5	37.5	500	100 E4	R76QW 3470--3--
0.56 μF	16.0	28.5	41.5	37.5	500	100 E4	R76QW 3560--3--
0.68 μF	19.0	32.0	41.5	37.5	500	100 E4	R76QW 3680--3--
0.82 μF	20.0	40.0	41.5	37.5	500	100 E4	R76QW 3820--3--
1.0 μF	20.0	40.0	41.5	37.5	500	100 E4	R76QW 4100--3--
1.2 μF	24.0	44.0	41.5	37.5	500	100 E4	R76QW 4120--3--
1.5 μF	24.0	44.0	41.5	37.5	500	100 E4	R76QW 4150--3--
1.8 μF	30.0	45.0	41.5	37.5	500	100 E4	R76QW 4180--3--
2.2 μF	30.0	45.0	41.5	37.5	500	100 E4	R76QW 4220--3--

Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: H (±2.5%)\*; J (±5%); K (±10%) \_\_\_\_\_

All dimensions are in mm.

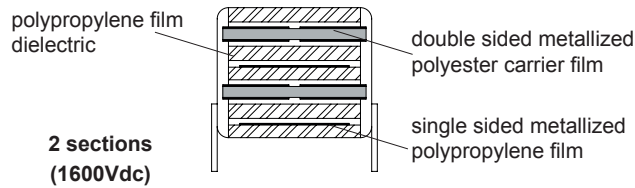
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.

The pulse characteristic K<sub>0</sub> 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.

\* Tolerance H (+2.5%) for C ≥1000pF

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

PRODUCT CODE: R76



Rated Cap.	1600Vdc / 650Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
3300 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R76TI1330-4--
3300 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1330-3--
3900 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R76TI1390-4--
3900 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1390-3--
4700 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R76TI1470-4--
4700 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1470-3--
5600 pF	4.0	10.0	18.0	15.0	6000	1900 E4	R76TI1560-4--
5600 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1560-3--
6800 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1680-3--
8200 pF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI1820-4--
0.010 μF	5.0	11.0	18.0	15.0	6000	1900 E4	R76TI2100-4--
0.012 μF	6.0	12.0	18.0	15.0	6000	1900 E4	R76TI2120-4--
0.015 μF	6.0	12.0	18.0	15.0	6000	1900 E4	R76TI2150-4--
0.018 μF	7.5	13.5	18.0	15.0	6000	1900 E4	R76TI2180-4--
0.018 μF	9.0	12.5	18.0	15.0	6000	1900 E4	R76TI2180-7--
0.022 μF	7.5	13.5	18.0	15.0	6000	1900 E4	R76TI2220-4--
0.022 μF	13.0	12.0	18.0	15.0	6000	1900 E4	R76TI2220-7--
0.027 μF	8.5	14.5	18.0	15.0	6000	1900 E4	R76TI2270-4--
0.033 μF	8.5	14.5	18.0	15.0	6000	1900 E4	R76TI2330-4--

Mechanical version and packaging (Table1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: H (±2.5%); J (±5%); K (±10%) \_\_\_\_\_

Rated Cap.	1600Vdc / 650Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.015 μF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN 2150-3--
0.018 μF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN 2180-3--
0.022 μF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN 2220-3--
0.027 μF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN 2270-3--
0.033 μF	6.0	15.0	26.5	22.5	3000	960 E4	R76TN 2330-4--
0.039 μF	7.0	16.0	26.5	22.5	3000	960 E4	R76TN 2390-4--
0.047 μF	7.0	16.0	26.5	22.5	3000	960 E4	R76TN 2470-4--
0.056 μF	8.5	17.0	26.5	22.5	3000	960 E4	R76TN 2560-4--
0.068 μF	10.0	18.5	26.5	22.5	3000	960 E4	R76TN 2680-4--
0.082 μF	10.0	18.5	26.5	22.5	3000	960 E4	R76TN 2820-4--
0.10 μF	11.0	20.0	26.5	22.5	3000	960 E4	R76TN 3100-4--
0.039 μF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2390-3--
0.047 μF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2470-3--
0.056 μF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2560-3--
0.068 μF	9.0	17.0	32.0	27.5	2000	640 E4	R76TR 2680-3--
0.082 μF	11.0	20.0	32.0	27.5	2000	640 E4	R76TR 2820-3--
0.10 μF	11.0	20.0	32.0	27.5	2000	640 E4	R76TR 3100-3--
0.12 μF	13.0	22.0	32.0	27.5	2000	640 E4	R76TR 3120-3--
0.15 μF	13.0	25.0	32.0	27.5	2000	640 E4	R76TR 3150-4--
0.18 μF	14.0	28.0	32.0	27.5	2000	640 E4	R76TR 3180-4--
0.22 μF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3220-3--
0.27 μF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3270-3--
0.33 μF	18.0	33.0	32.0	27.5	2000	640 E4	R76TR 3330-3--
0.39 μF	22.0	37.0	32.0	27.5	2000	640 E4	R76TR 3390-3--
0.47 μF	22.0	37.0	32.0	27.5	2000	640 E4	R76TR 3470-3--
0.082 μF	11.0	22.0	41.5	37.5	1200	384 E4	R76TW 2820-3--
0.10 μF	11.0	22.0	41.5	37.5	1200	384 E4	R76TW 3100-3--
0.12 μF	11.0	22.0	41.5	37.5	1200	384 E4	R76TW 3120-3--
0.15 μF	11.0	22.0	41.5	37.5	1200	384 E4	R76TW 3150-3--
0.18 μF	13.0	24.0	41.5	37.5	1200	384 E4	R76TW 3180-3--
0.22 μF	13.0	24.0	41.5	37.5	1200	384 E4	R76TW 3220-3--
0.27 μF	13.0	24.0	41.5	37.5	1200	384 E4	R76TW 3270-3--
0.33 μF	16.0	28.5	41.5	37.5	1200	384 E4	R76TW 3330-3--
0.39 μF	16.0	28.5	41.5	37.5	1200	384 E4	R76TW 3390-3--
0.47 μF	19.0	32.0	41.5	37.5	1200	384 E4	R76TW 3470-3--
0.56 μF	20.0	40.0	41.5	37.5	1200	384 E4	R76TW 3560-3--
0.68 μF	20.0	40.0	41.5	37.5	1200	384 E4	R76TW 3680-3--
0.82 μF	24.0	44.0	41.5	37.5	1200	384 E4	R76TW 3820-3--
1.0 μF	24.0	44.0	41.5	37.5	1200	384 E4	R76TW 4100-3--
1.2 μF	30.0	45.0	41.5	37.5	1200	384 E4	R76TW 4120-3--

Mechanical version and packaging (Table1) \_\_\_\_\_  
 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<sub>R</sub>), 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<sub>R</sub>/V. The pulse characteristic K<sub>0</sub> 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.





**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 15µF 1 section  
100pF to 5.6µF 2 sections

**Capacitance values:**

E12 series (IEC 60063 Norm).

**Capacitance tolerances** (measured at 1 kHz):

±5% (J); ±10% (K) for  $C < 1000\text{pF}$   
±2.5% (H); ±5% (J); ±10% (K); for  $C \geq 1000\text{pF}$

**Total self-inductance (L):**

(Lead length ~2 mm)

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

**Dissipation factor (DF):**

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

kHz	$C \leq 0.1\mu\text{F}$	$0.1\mu\text{F} < C \leq 1.0\mu\text{F}$	$C > 1\mu\text{F}$
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**

≥ 1x10<sup>5</sup> MΩ for  $C \leq 0.33\mu\text{F}$  (5x10<sup>5</sup> MΩ)\*  
≥ 30000 s for  $C > 0.33\mu\text{F}$  (150000 s)\*  
\* Typical value.

**Test voltage between terminations:**

1.6x $V_R$  applied for 2 s at +25°C ±5°C

**TEST METHOD AND PERFORMANCE**

**Damp heat, steady state:**

**Test conditions**

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

**Performance**

Capacitance change  $|\Delta C/C|$ : ≤ 2%  
DF change ( $\Delta \text{tg}\delta$ ): ≤ 10x10<sup>-4</sup> at 1kHz  
Insulation resistance: ≥ 50% of initial limit.

**Endurance:**

**Test conditions**

Temperature: +85°C ±2°C  
Test duration: 2000 h  
Voltage applied: 1.25x $V_R$  (d.c.)

**Performance**

Capacitance change  $|\Delta C/C|$ : ≤ 2%  
DF change ( $\Delta \text{tg}\delta$ ): ≤ 10x10<sup>-4</sup> at 10kHz for  $C \leq 1\mu\text{F}$   
≤ 10x10<sup>-4</sup> at 1kHz for  $C > 1\mu\text{F}$   
Insulation resistance: ≥ 50% of initial limit.

**Resistance to soldering heat:**

**Test conditions**

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

**Performance**

Capacitance change  $|\Delta C/C|$ : ≤ 1%  
DF change ( $\Delta \text{tg}\delta$ ): ≤ 10x10<sup>-4</sup> at 10kHz for  $C \leq 1\mu\text{F}$   
≤ 10x10<sup>-4</sup> at 1kHz for  $C > 1\mu\text{F}$   
Insulation resistance: ≥ initial limit.

**Long term stability** (after two years):

**Storage:** standard environmental conditions (see page 12).

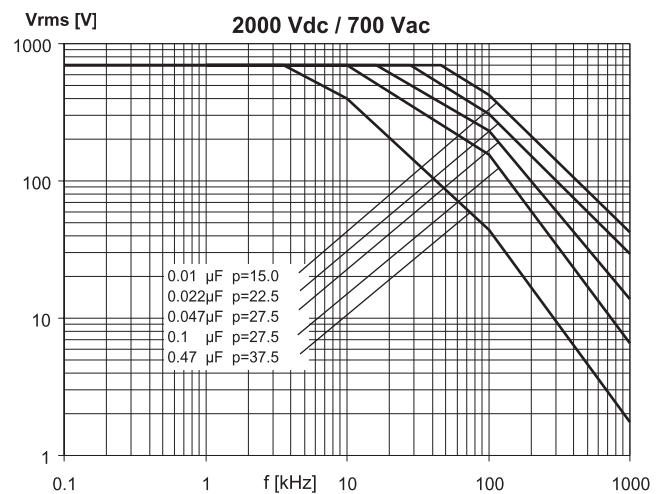
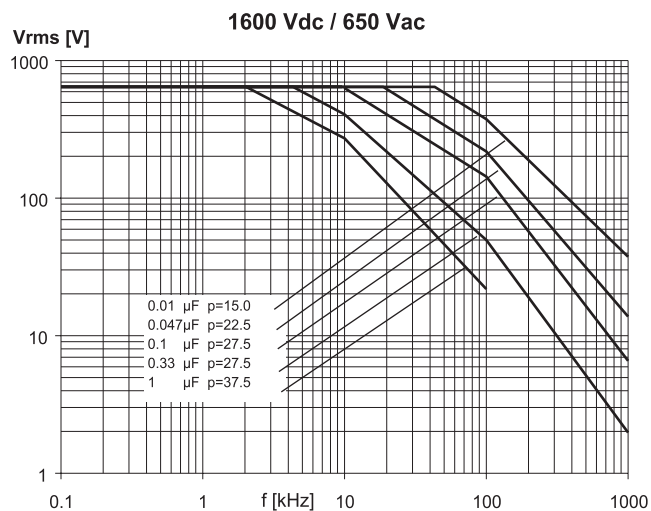
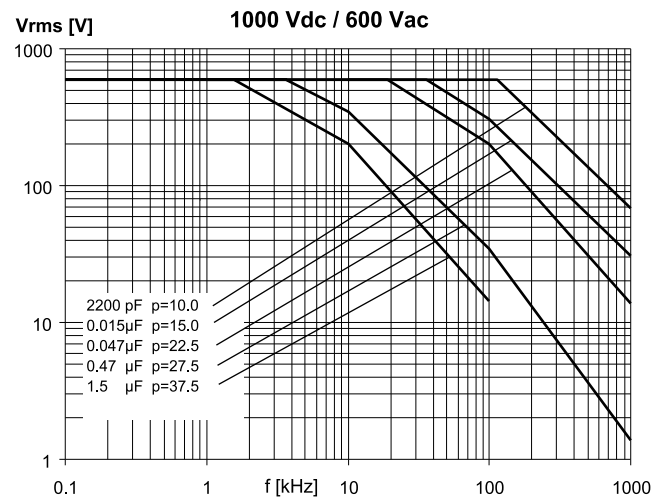
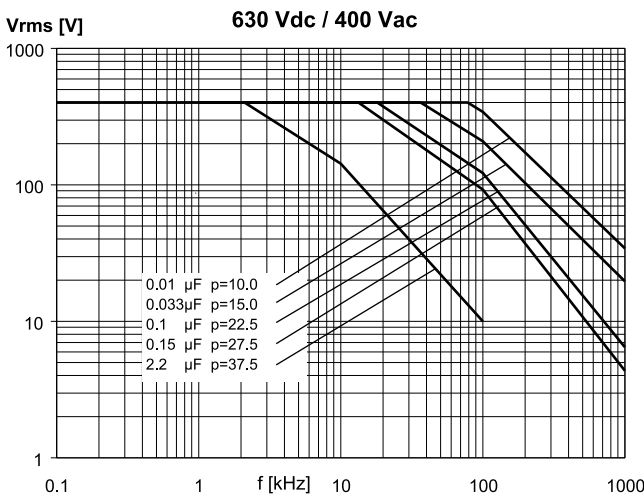
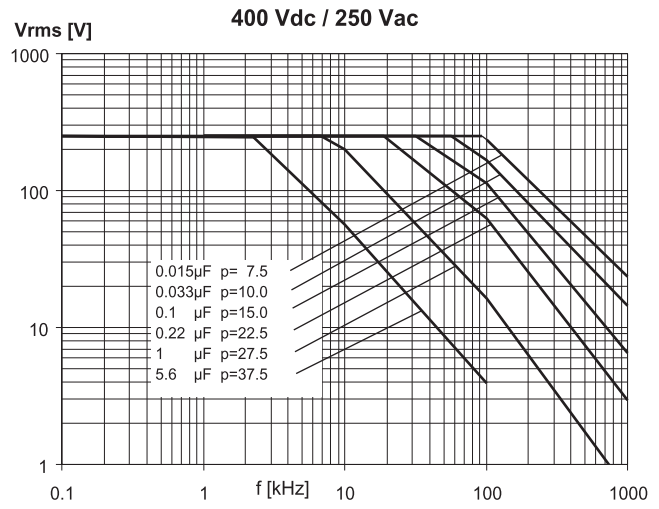
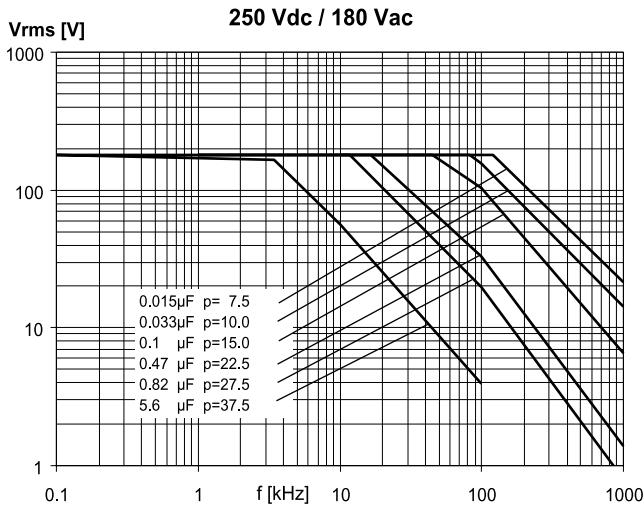
**Performance**

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

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

PRODUCT CODE: **R76**

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

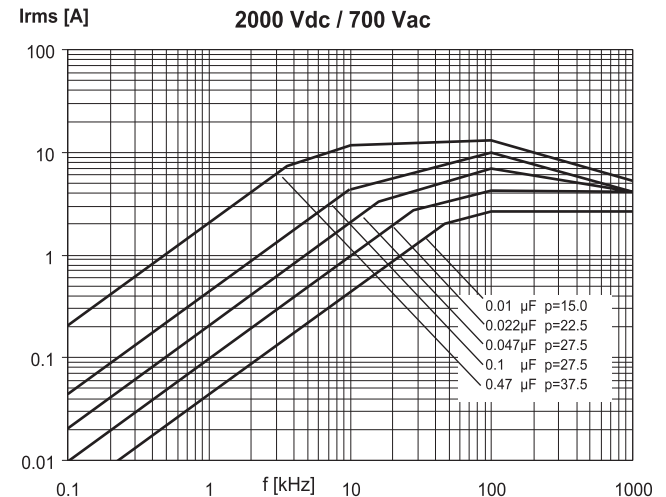
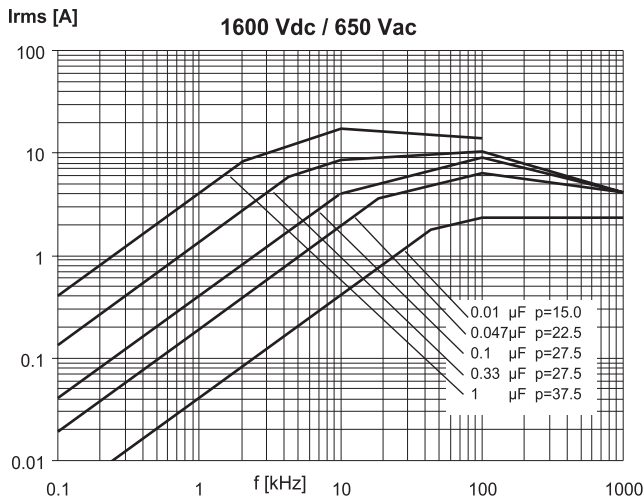
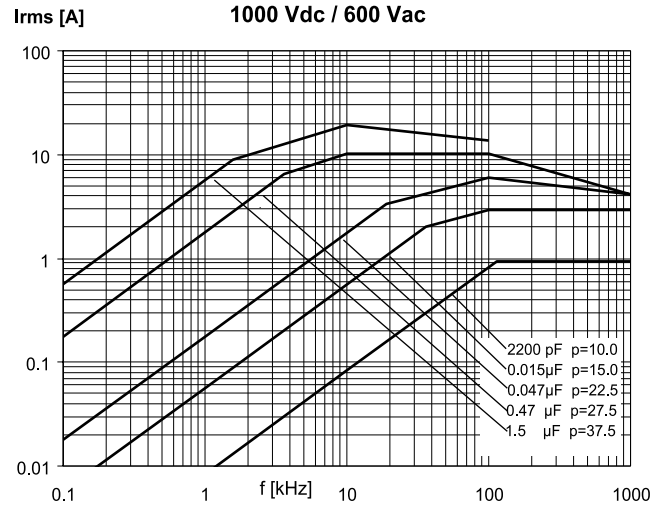
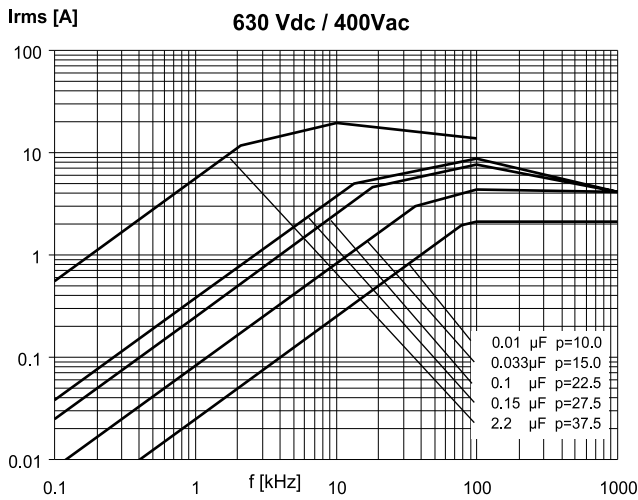
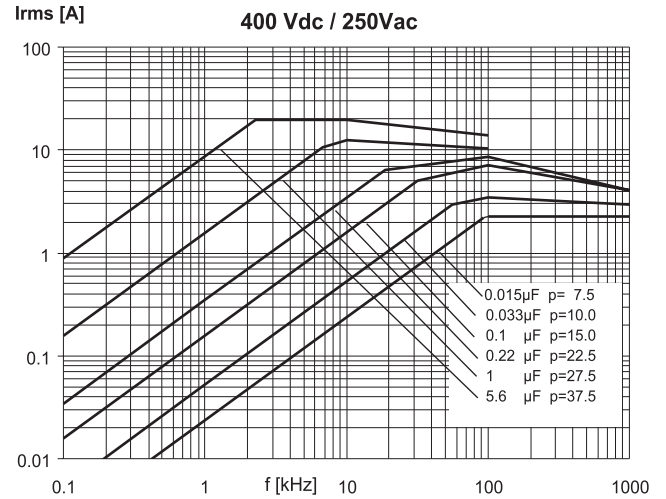
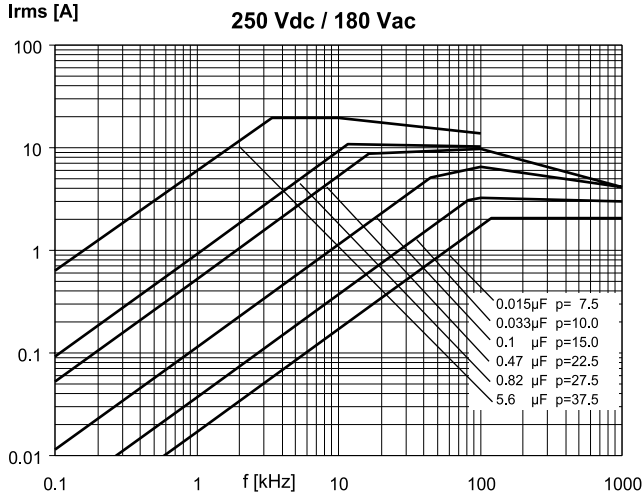


Note: p (pitch) in mm.

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

PRODUCT CODE: R76

MAX. CURRENT (I<sub>r.m.s.</sub>) VERSUS FREQUENCY (sinusoidal wave-form / T<sub>h</sub> ≤ 40°C)



Note: p (pitch) in mm.