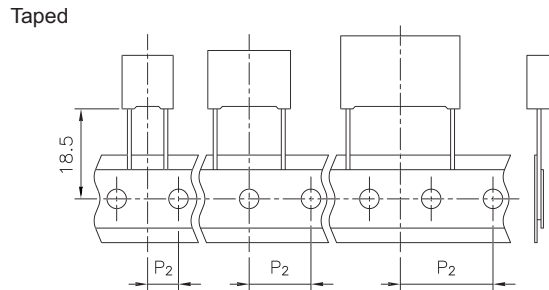


Fig. 1 Fig. 2 Fig. 3



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

\*Except for box ≥10x16x18 having Ød = 0.8±0.05mm

All dimensions are in mm.

**PRODUCT CODE SYSTEM**

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	7	5										-	

- Digit 1 to 3 Series code.
- Digit 4 d.c. rated voltage:  
G = 160V I = 250V  
M = 400V P = 630V  
Q = 1000V
- Digit 5 Pitch:  
D = 7.5 mm; F = 10 mm; I = 15 mm;  
N = 22.5 mm; R = 27.5mm; W = 37.5mm
- Digit 6 to 9 Digits 7 - 8 - 9 indicate the first three digits of Capacitance value and the 6th digit indicates the number of zeros that must be added to obtain the Rated Capacitance in pF.
- Digit 10 to 11 Mechanical version and/or packaging (table 1)
- Digit 12 Identifies the dimensions and electrical characteristics (A to Z).
- Digit 13 Internal use.
- Digit 14 Capacitance tolerance:  
J=5%; K=10%; M=20%

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>				AA
Loose, long leads (p≤10mm)	17 <sup>+1/-2</sup>				Z3
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.

**REDUCED SIZES**

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

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

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

Pitch (mm)	Box thickness (B) (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

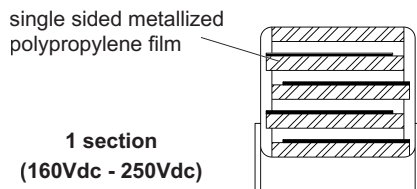
**GENERAL TECHNICAL DATA**

- Dielectric:** polypropylene film.
- Plates:** metal layer deposited by evaporation under vacuum.
- Winding:** non-inductive type.
- Leads:** tinned wire.
- Protection:** plastic case, thermosetting resin filled.  
Box material is solvent resistant and flame retardant according to UL94 V0.
- Marking:** manufacturer's logo, series (R75), dielectric code (MKP), capacitance, tolerance, D.C. rated voltage, manufacturing date code.
- Climatic category:** 55/105/56 IEC 60068-1
- Operating temperature range:** -55 to +105°C
- Related documents:** IEC 60384-16

**REDUCED SIZES**

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

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



Rated Cap.	160Vdc / 70Vac 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	4.0	9.0	10.5	7.5	100	32 E3	R75GD 3100--A--
0.12 μF	5.0	11.0	10.5	7.5	100	32 E3	R75GD 3120--A--
0.15 μF	5.0	11.0	10.5	7.5	100	32 E3	R75GD 3150--A--
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--

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

Rated Cap.	250Vdc / 140Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.068 μF	4.0	9.0	10.5	7.5	180	90 E3	R75ID 2680--A--
0.082 μF	4.0	9.0	10.5	7.5	180	90 E3	R75ID 2820--A--
0.10 μF	5.0	11.0	10.5	7.5	180	90 E3	R75ID 3100--A--
0.12 μF	5.0	11.0	10.5	7.5	180	90 E3	R75ID 3120--A--
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--

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

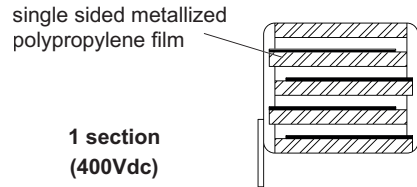
All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V<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.

**REDUCED SIZES**

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

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



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

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

Rated Cap.	400Vdc / 200Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.27 μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3270--M--
0.33 μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3330--M--
0.39 μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3390--M--
0.47 μF	6.0	15.0	26.5	22.5	200	160 E3	R75MN 3470--M--
0.56 μF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3560--M--
0.68 μF	7.0	16.0	26.5	22.5	200	160 E3	R75MN 3680--M--
0.82 μF	8.5	17.0	26.5	22.5	200	160 E3	R75MN 3820--M--
1.0 μF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4100--M--
1.2 μF	10.0	18.5	26.5	22.5	200	160 E3	R75MN 4120--M--
1.5 μF	11.0	20.0	26.5	22.5	200	160 E3	R75MN 4150--M--
1.8 μF	13.0	22.0	26.5	22.5	200	160 E3	R75MN 4180--M--
0.68 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 3680--M--
0.82 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 3820--M--
1.0 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4100--M--
1.2 μF	9.0	17.0	32.0	27.5	100	80 E3	R75MR 4120--M--
1.5 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4150--M--
1.8 μF	11.0	20.0	32.0	27.5	100	80 E3	R75MR 4180--M--
2.2 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4220--M--
2.7 μF	13.0	22.0	32.0	27.5	100	80 E3	R75MR 4270--M--
3.3 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR 4330--M--
3.9 μF	14.0	28.0	32.0	27.5	80	60 E3	R75MR 4390--M--
4.7 μF	18.0	33.0	32.0	27.5	80	60 E3	R75MR 4470--M--
2.2 μF	11.0	22.0	41.5	37.5	80	60 E3	R75MW4220--M--
2.7 μF	11.0	22.0	41.5	37.5	80	60 E3	R75MW4270--M--
3.3 μF	11.0	22.0	41.5	37.5	80	60 E3	R75MW4330--M--
3.9 μF	13.0	24.0	41.5	37.5	80	60 E3	R75MW4390--M--
4.7 μF	16.0	28.5	41.5	37.5	80	60 E3	R75MW4470--M--
5.6 μF	16.0	28.5	41.5	37.5	40	30 E3	R75MW4560--M--
6.8 μF	16.0	28.5	41.5	37.5	40	30 E3	R75MW4680--M--
8.2 μF	19.0	32.0	41.5	37.5	40	30 E3	R75MW4820--M--
10.0 μF	20.0	40.0	41.5	37.5	40	30 E3	R75MW5100--M--
12.0 μF	20.0	40.0	41.5	37.5	40	30 E3	R75MW5120--M--
15.0 μF	24.0	44.5	41.5	37.5	20	15 E3	R75MW5150--M--
18.0 μF	24.0	44.5	41.5	37.5	20	15 E3	R75MW5180--M--
22.0 μF	30.0	45.0	41.5	37.5	20	15 E3	R75MW5220--M--

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

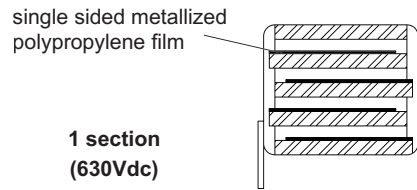
All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V<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.

**REDUCED SIZES**

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

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



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

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

Rated Cap.	630Vdc / 220Vac* 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	6.0	15.0	26.5	22.5	250	315 E3	R75PN3150--M--
0.18 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3180--M--
0.22 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN3220--M--
0.27 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3270--M--
0.33 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN3330--M--
0.39 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3390--M--
0.47 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3470--M--
0.56 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN3560--M--
0.68 μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN3680--M--
0.82 μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN3820--M--
1.0 μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN4100--M--
0.47 μF	9.0	17.0	32.0	27.5	150	180 E3	R75PR3470--M--
0.56 μF	9.0	17.0	32.0	27.5	150	180 E3	R75PR3560--M--
0.68 μF	9.0	17.0	32.0	27.5	150	180 E3	R75PR3680--M--
0.82 μF	11.0	20.0	32.0	27.5	150	180 E3	R75PR3820--M--
1.0 μF	11.0	20.0	32.0	27.5	150	180 E3	R75PR4100--M--
1.2 μF	13.0	22.0	32.0	27.5	150	180 E3	R75PR4120--M--
1.5 μF	13.0	22.0	32.0	27.5	150	180 E3	R75PR4150--M--
1.8 μF	14.0	28.0	32.0	27.5	100	120 E3	R75PR4180--M--
2.2 μF	14.0	28.0	32.0	27.5	100	120 E3	R75PR4220--M--
2.7 μF	18.0	33.0	32.0	27.5	100	120 E3	R75PR4270--M--
3.3 μF	18.0	33.0	32.0	27.5	100	120 E3	R75PR4330--M--
3.9 μF	22.0	37.0	32.0	27.5	60	70 E3	R75PR4390--M--
4.7 μF	22.0	37.0	32.0	27.5	60	70 E3	R75PR4470--M--
1.5 μF	11.0	22.0	41.5	37.5	100	120 E3	R75PW4150--M--
1.8 μF	11.0	22.0	41.5	37.5	100	120 E3	R75PW4180--M--
2.2 μF	13.0	24.0	41.5	37.5	100	120 E3	R75PW4220--M--
2.7 μF	13.0	24.0	41.5	37.5	100	120 E3	R75PW4270--M--
3.3 μF	16.0	28.5	41.5	37.5	60	70 E3	R75PW4330--M--
3.9 μF	16.0	28.5	41.5	37.5	60	70 E3	R75PW4390--M--
4.7 μF	19.0	32.0	41.5	37.5	60	70 E3	R75PW4470--M--
5.6 μF	19.0	32.0	41.5	37.5	60	70 E3	R75PW4560--M--
6.8 μF	20.0	40.0	41.5	37.5	30	36 E3	R75PW4680--M--
8.2 μF	20.0	40.0	41.5	37.5	30	36 E3	R75PW4820--M--
10.0 μF	24.0	44.0	41.5	37.5	30	36 E3	R75PW5100--M--
12.0 μF	24.0	44.0	41.5	37.5	30	36 E3	R75PW5120--M--
15.0 μF	30.0	45.0	41.5	37.5	20	24 E3	R75PW5150--M--

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<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.

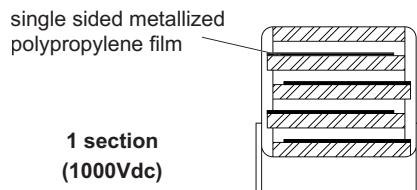
The pulse characteristic K<sub>0</sub> depends on the voltage wave-form and in any case it cannot overcome the value given in the above table. The dv/dt test is carried out at 2 times the above values.

\* Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors (page 167)

**PRELIMINARY**

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

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



Rated Cap.	1000Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	ρ			
0.22 μF	9.0	17.0	32.0	27.5	180	320 E3	R75QR3220--M--
0.27 μF	9.0	17.0	32.0	27.5	180	320 E3	R75QR3270--M--
0.33 μF	11.0	20.0	32.0	27.5	180	320 E3	R75QR3330--M--
0.39 μF	11.0	20.0	32.0	27.5	180	320 E3	R75QR3390--M--
0.47 μF	13.0	22.0	32.0	27.5	180	320 E3	R75QR3470--M--
0.56 μF	13.0	22.0	32.0	27.5	180	320 E3	R75QR3560--M--
0.68 μF	14.0	28.0	32.0	27.5	180	320 E3	R75QR3680--M--
0.82 μF	14.0	28.0	32.0	27.5	180	320 E3	R75QR3820--M--
1.0 μF	18.0	33.0	32.0	27.5	180	320 E3	R75QR4100--M--
1.2 μF	18.0	33.0	32.0	27.5	180	320 E3	R75QR4120--M--
1.5 μF	18.0	33.0	32.0	27.5	180	320 E3	R75QR4150--M--
1.8 μF	22.0	37.0	32.0	27.5	180	320 E3	R75QR4180--M--
2.2 μF	22.0	37.0	32.0	27.5	180	320 E3	R75QR4220--M--

Rated Cap.	1000Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	ρ			
0.68 μF	11.0	22.0	41.5	37.5	150	260 E3	R75QW3680--M--
0.82 μF	13.0	24.0	41.5	37.5	150	260 E3	R75QW3820--M--
1.0 μF	13.0	24.0	41.5	37.5	150	260 E3	R75QW4100--M--
1.2 μF	16.0	28.5	41.5	37.5	150	260 E3	R75QW4120--M--
1.5 μF	16.0	28.5	41.5	37.5	150	260 E3	R75QW4150--M--
1.8 μF	19.0	32.0	41.5	37.5	150	260 E3	R75QW4180--M--
2.2 μF	19.0	32.0	41.5	37.5	150	260 E3	R75QW4220--M--
2.7 μF	20.0	40.0	41.5	37.5	100	180 E3	R75QW4270--M--
3.3 μF	24.0	44.0	41.5	37.5	100	180 E3	R75QW4330--M--
3.9 μF	24.0	44.0	41.5	37.5	100	180 E3	R75QW4390--M--
4.7 μF	24.0	44.0	41.5	37.5	60	100 E3	R75QW4470--M--
5.6 μF	30.0	45.0	41.5	37.5	60	100 E3	R75QW4560--M--

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

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<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 (page 167)

**REDUCED SIZES**

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

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

**ELECTRICAL CHARACTERISTICS**

**Rated voltage ( $V_R$ ):**

160Vdc - 250Vdc - 400Vdc - 630Vdc - 1000 Vdc.

**Rated temperature ( $T_R$ ):** +85°C

**Temperature derated voltage:**

The following decreasing factor has to be applied on the rated voltage:

+85°C to +105°C: 2.00% per °C for  $V_R$  (d.c.)

+85°C to +105°C: 1.25% per °C for  $V_R$  (a.c.)

**Capacitance range:**

0.01µF to 22µF

**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):**

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

kHz	$C \leq 0.1\mu F$	$0.1 < C \leq 1.0\mu F$	$1 < C \leq 4.7\mu F$
1	≤ 4	≤ 5	≤ 6
10	≤ 6	≤ 12	
100	≤ 30		

**Insulation resistance:**

**Test conditions**

Temperature: +25°C ±5°C

Voltage charge time: 1 min

Voltage charge: 100Vdc

**Performance**

≥ 1x10<sup>5</sup> MΩ for C ≥ 0.33 µF (5x10<sup>5</sup> MΩ)\*

≥ 30000 s for C > 0.33 µF (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 ( $\Delta tg\delta$ ): ≤ 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 $V_R$

**Performance**

Capacitance change  $|\Delta C/C|$ : ≤ 3%

DF change ( $\Delta tg\delta$ ): ≤ 10x10<sup>-4</sup> at 10kHz for C ≤ 1µF

≤ 10x10<sup>-4</sup> 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  $|\Delta C/C|$ : ≤ 1%

DF change ( $\Delta tg\delta$ ): ≤ 10x10<sup>-4</sup> at 10kHz for C ≤ 1µF

≤ 10x10<sup>-4</sup> at 1kHz for C ≥ 1µF

Insulation resistance: ≥ initial limit.

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

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

**Performance**

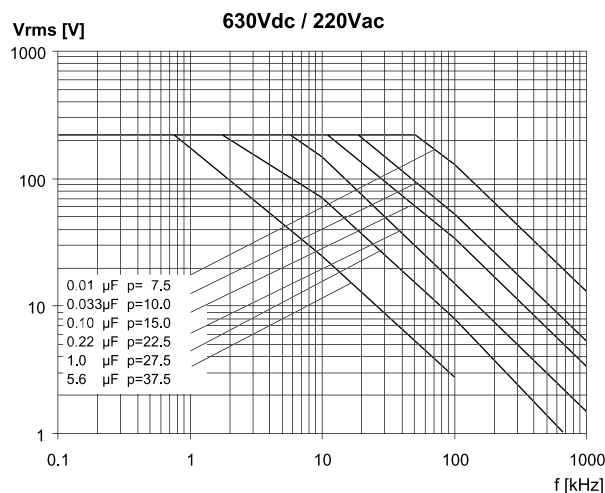
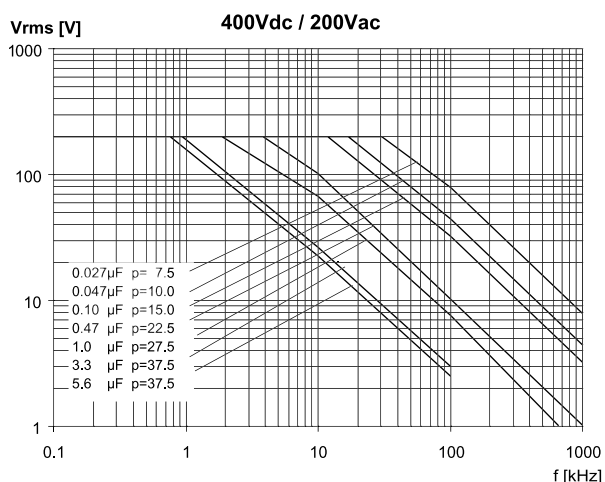
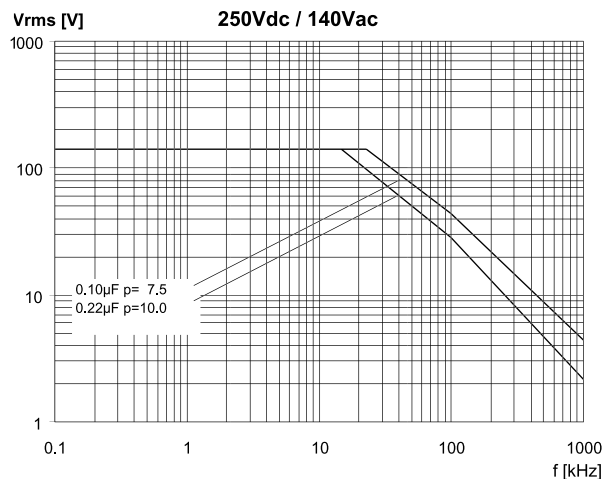
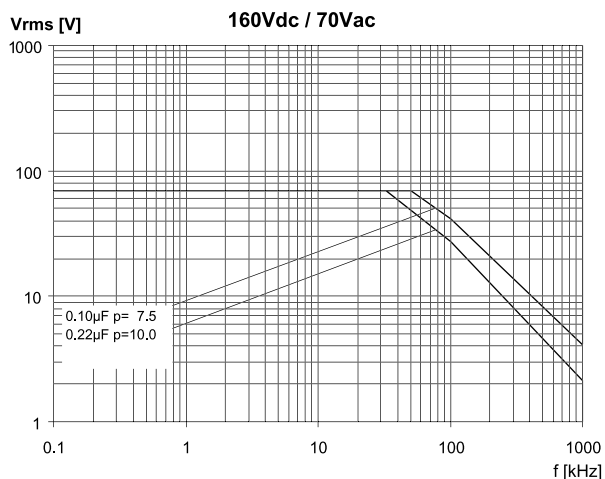
Capacitance change  $|\Delta C/C|$ : ≤ 0.5%

**REDUCED SIZES**

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

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

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



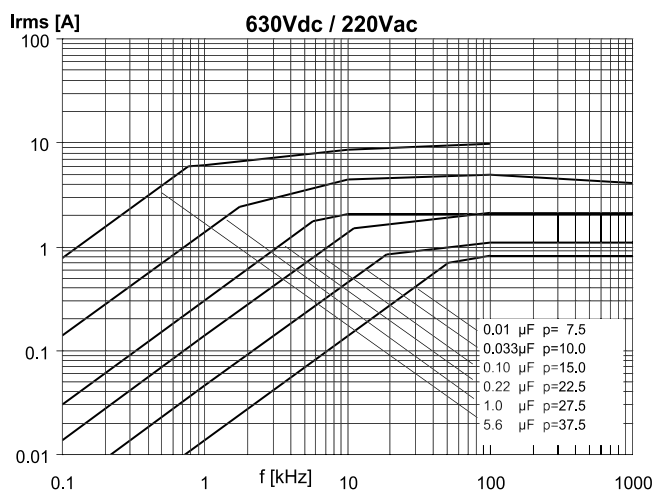
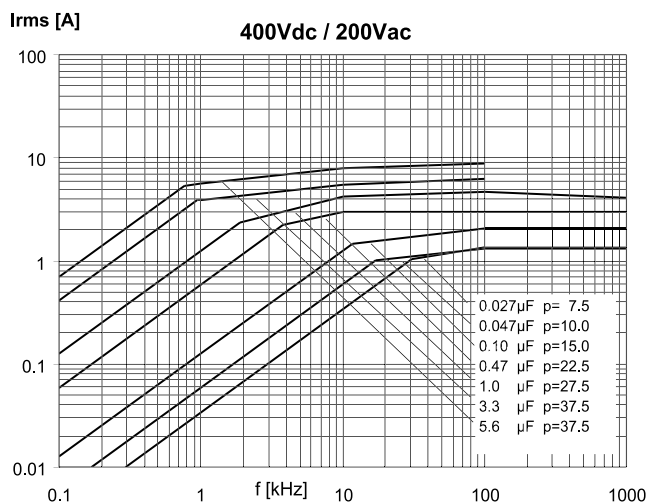
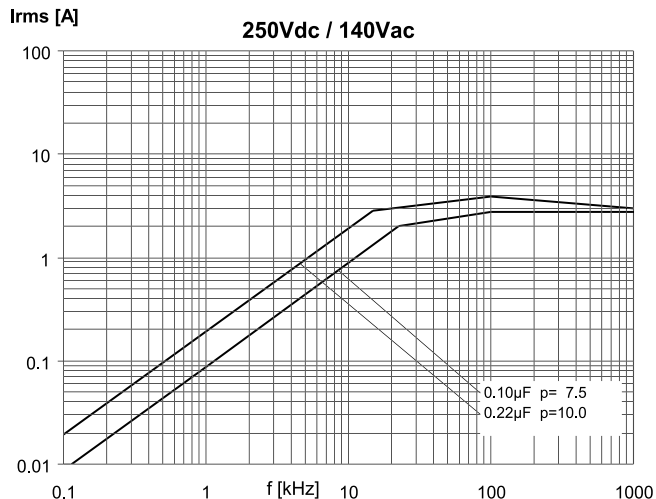
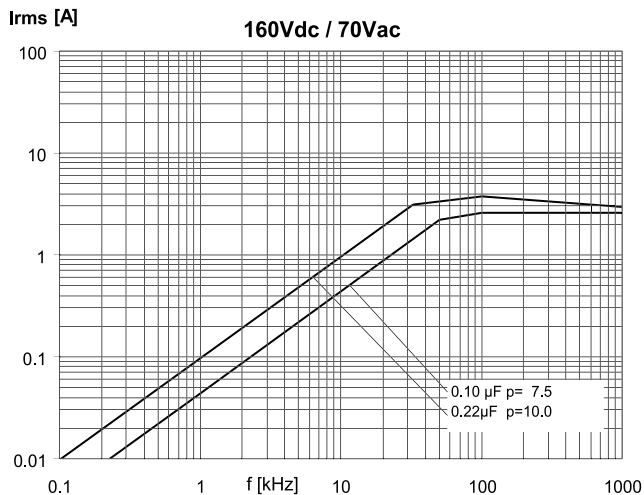
Note: p (pitch) in mm.

**REDUCED SIZES**

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

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

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



Note: p (pitch) in mm.