

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

All dimensions are in mm.

**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:  
 G = 160V I = 250V M = 400V  
 P = 630V Q = 1000V R = 1250V  
 T = 1600V U = 2000V
- Digit 5 Pitch:  
 D = 7.5 mm; F = 10 mm; I = 15 mm;  
 N = 22.5 mm; R = 27.5mm; W = 37.5mm
- Digit 6 to 9 Digits 7 - 8 - 9 indicate the first three digits of Capacitance value and the 6th digit indicates the number of zeros that must be added to obtain the Rated Capacitance in pF.
- Digit 10 to 11 Mechanical version and/or packaging (table 1)
- Digit 12 Identifies the dimensions and electrical characteristics (0 to 9).
- Digit 13 Internal use.
- Digit 14 Capacitance tolerance:  
 J=5%; K=10%; M=20%

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

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

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

Pitch (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**

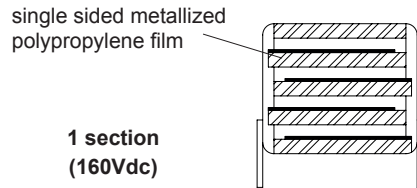
- Dielectric:** polypropylene film.
- Plates:** aluminium layer deposited by evaporation under vacuum.
- Winding:** non-inductive type.
- Leads:** for Ø ≥ 0.6mm: tinned wire  
 for Ø = 0.5mm: tinned wire, low thermal conductivity.
- Protection:** plastic case, thermosetting resin filled.  
 Box material is solvent resistant and flame retardant according to UL94 V0.
- Marking:** manufacturer's logo, series (R75), dielectric code (MKP), capacitance, tolerance, D.C. rated voltage, manufacturing date code.
- Climatic category:** 55/105/56 IEC 60068-1
- Operating temperature range:** -55 to +105°C
- Related documents:** IEC 60384-16

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

Standard packaging style	Lead length (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>				40
	25 <sup>+2/-1</sup>				50

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

**HIGH PERFORMANCES**  
**METALLIZED POLYPROPYLENE FILM CAPACITOR**  
**D.C. AND PULSE APPLICATIONS**  
PRODUCT CODE: R75 (Digit 12: 0 to 9)



Rated Cap.	160Vdc / 90Vac 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	10.0	7.5	230	74 E3	R75GD2680--4--
0.082 μF	4.0	9.0	10.0	7.5	230	74 E3	R75GD2820--4--
0.10 μF	5.0	10.5	10.0	7.5	230	74 E3	R75GD3100--4--
0.12 μF	5.0	10.5	10.0	7.5	230	74 E3	R75GD3120--4--
0.15 μF	6.0	12.0	10.5	7.5	230	74 E3	R75GD3150--0--
0.18 μF	6.0	12.0	10.5	7.5	230	74 E3	R75GD3180--3--
0.082 μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 2820--0--
0.10 μF	4.0	9.0	13.0	10.0	180	58 E3	R75GF 3100--3--
0.12 μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3120--0--
0.15 μF	5.0	11.0	13.0	10.0	180	58 E3	R75GF 3150--0--
0.18 μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3180--0--
0.22 μF	6.0	12.0	13.0	10.0	180	58 E3	R75GF 3220--3--
0.18 μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3180--0--
0.22 μF	5.0	11.0	18.0	15.0	100	32 E3	R75GI 3220--0--
0.27 μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3270--0--
0.33 μF	6.0	12.0	18.0	15.0	100	32 E3	R75GI 3330--0--
0.39 μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3390--0--
0.47 μF	7.5	13.5	18.0	15.0	100	32 E3	R75GI 3470--0--
0.47 μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3470--6--
0.56 μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3560--0--
0.56 μF	9.0	12.5	18.0	15.0	100	32 E3	R75GI 3560--6--
0.68 μF	8.5	14.5	18.0	15.0	100	32 E3	R75GI 3680--0--
0.68 μF	13.0	12.0	18.0	15.0	100	32 E3	R75GI 3680--6--
0.82 μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 3820--0--
1.0 μF	10.0	16.0	18.0	15.0	100	32 E3	R75GI 4100--0--

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

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

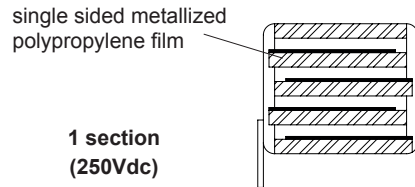
Mechanical version and packaging (Table1) \_\_\_\_\_  
Internal use \_\_\_\_\_  
Tolerance: J (±5%); K (±10%); M (±20%) \_\_\_\_\_

All dimensions are mm.

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

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

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



Rated Cap.	250Vdc / 160Vac 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	10.0	7.5	300	150 E3	R75ID2270-4--
0.033 μF	4.0	9.0	10.0	7.5	300	150 E3	R75ID2330-4--
0.039 μF	4.0	9.0	10.0	7.5	300	150 E3	R75ID2390-4--
0.047 μF	4.0	9.0	10.0	7.5	300	150 E3	R75ID2470-4--
0.056 μF	4.0	9.0	10.0	7.5	300	150 E3	R75ID2560-4--
0.068 μF	5.0	10.5	10.0	7.5	300	150 E3	R75ID2680-4--
0.082 μF	5.0	10.5	10.0	7.5	300	150 E3	R75ID2820-4--
0.10 μF	6.0	12.0	10.5	7.5	300	150 E3	R75ID3100-3--
0.12 μF	6.0	12.0	10.5	7.5	300	150 E3	R75ID3120-3--
0.033 μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF 2330-0--
0.039 μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF 2390-0--
0.047 μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF 2470-3--
0.056 μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF 2560-3--
0.068 μF	4.0	9.0	13.0	10.0	280	140 E3	R75IF 2680-3--
0.082 μF	5.0	11.0	13.0	10.0	280	140 E3	R75IF 2820-3--
0.10 μF	5.0	11.0	13.0	10.0	280	140 E3	R75IF 3100-3--
0.12 μF	6.0	12.0	13.0	10.0	280	140 E3	R75IF 3120-3--
0.15 μF	6.0	12.0	13.0	10.0	280	140 E3	R75IF 3150-3--
0.12 μF	5.0	11.0	18.0	15.0	200	100 E3	R75II 3120-3--
0.15 μF	5.0	11.0	18.0	15.0	200	100 E3	R75II 3150-3--
0.18 μF	5.0	11.0	18.0	15.0	200	100 E3	R75II 3180-4--
0.22 μF	5.0	11.0	18.0	15.0	200	100 E3	R75II 3220-4--
0.27 μF	6.0	12.0	18.0	15.0	200	100 E3	R75II 3270-4--
0.33 μF	6.0	12.0	18.0	15.0	200	100 E3	R75II 3330-4--
0.39 μF	7.5	13.5	18.0	15.0	200	100 E3	R75II 3390-4--
0.39 μF	9.0	12.5	18.0	15.0	200	100 E3	R75II 3390-7--
0.47 μF	7.5	13.5	18.0	15.0	200	100 E3	R75II 3470-4--
0.47 μF	9.0	12.5	18.0	15.0	200	100 E3	R75II 3470-8--
0.56 μF	7.5	13.5	18.0	15.0	200	100 E3	R75II 3560-4--
0.56 μF	9.0	12.5	18.0	15.0	200	100 E3	R75II 3560-8--
0.68 μF	8.5	14.5	18.0	15.0	200	100 E3	R75II 3680-4--
0.68 μF	13.0	12.0	18.0	15.0	200	100 E3	R75II 3680-8--
0.82 μF	10.0	16.0	18.0	15.0	200	100 E3	R75II 3820-4--
0.82 μF	13.0	12.0	18.0	15.0	200	100 E3	R75II 3820-8--
1.0 μF	10.0	16.0	18.0	15.0	200	100 E3	R75II 4100-4--
1.2 μF	11.0	19.0	18.0	15.0	200	100 E3	R75II 4120-4--

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

Rated Cap.	250Vdc / 160Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.39 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3390-3--
0.47 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3470-3--
0.56 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3560-4--
0.68 μF	6.0	15.0	26.5	22.5	125	63 E3	R75IN 3680-4--
0.82 μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 3820-4--
1.0 μF	7.0	16.0	26.5	22.5	125	63 E3	R75IN 4100-4--
1.2 μF	8.5	17.0	26.5	22.5	125	63 E3	R75IN 4120-4--
1.5 μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4150-4--
1.8 μF	10.0	18.5	26.5	22.5	125	63 E3	R75IN 4180-4--
2.2 μF	11.0	20.0	26.5	22.5	125	63 E3	R75IN 4220-4--
2.7 μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4270-4--
3.3 μF	13.0	22.0	26.5	22.5	125	63 E3	R75IN 4330-4--
1.0 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4100-3--
1.2 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4120-3--
1.5 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4150-4--
1.8 μF	9.0	17.0	32.0	27.5	100	50 E3	R75IR 4180-4--
2.2 μF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4220-5--
2.7 μF	11.0	20.0	32.0	27.5	100	50 E3	R75IR 4270-4--
3.3 μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4330-4--
3.9 μF	13.0	22.0	32.0	27.5	100	50 E3	R75IR 4390-4--
4.7 μF	13.0	25.0	32.0	27.5	100	50 E3	R75IR 4470-5--
5.6 μF	14.0	28.0	32.0	27.5	100	50 E3	R75IR 4560-4--
6.8 μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4680-4--
8.2 μF	18.0	33.0	32.0	27.5	100	50 E3	R75IR 4820-4--
10.0 μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5100-4--
12.0 μF	22.0	37.0	32.0	27.5	100	50 E3	R75IR 5120-4--
3.3 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4330-4--
3.9 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4390-4--
4.7 μF	11.0	22.0	41.5	37.5	40	20 E3	R75IW4470-4--
5.6 μF	13.0	24.0	41.5	37.5	40	20 E3	R75IW4560-4--
6.8 μF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4680-4--
8.2 μF	16.0	28.5	41.5	37.5	40	20 E3	R75IW4820-4--
10.0 μF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5100-4--
12.0 μF	19.0	32.0	41.5	37.5	40	20 E3	R75IW5120-4--
15.0 μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5150-4--
18.0 μF	20.0	40.0	41.5	37.5	40	20 E3	R75IW5180-4--
22.0 μF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5220-4--
27.0 μF	24.0	44.0	41.5	37.5	40	20 E3	R75IW5270-4--
33.0 μF	30.0	45.0	41.5	37.5	40	20 E3	R75IW5330-4--

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

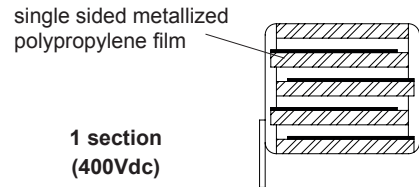
All dimensions are mm.

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

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

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



Rated Cap.	400Vdc / 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	10.0	7.5	450	360 E3	R75MD2100-4--
0.012 μF	4.0	9.0	10.0	7.5	450	360 E3	R75MD2120-4--
0.015 μF	4.0	9.0	10.0	7.5	450	360 E3	R75MD2150-4--
0.018 μF	4.0	9.0	10.0	7.5	450	360 E3	R75MD2180-4--
0.022 μF	4.0	9.0	10.0	7.5	450	360 E3	R75MD2220-4--
0.027 μF	5.0	10.5	10.0	7.5	450	360 E3	R75MD2270-4--
0.033 μF	5.0	10.5	10.0	7.5	450	360 E3	R75MD2330-4--
0.039 μF	6.0	12.0	10.5	7.5	450	360 E3	R75MD2390-3--
0.047 μF	6.0	12.0	10.5	7.5	450	360 E3	R75MD2470-3--
0.015 μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2150-0--
0.018 μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2180-0--
0.022 μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2220-3--
0.027 μF	4.0	9.0	13.0	10.0	420	336 E3	R75MF 2270-3--
0.033 μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2330-3--
0.039 μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2390-3--
0.047 μF	5.0	11.0	13.0	10.0	420	336 E3	R75MF 2470-3--
0.056 μF	6.0	12.0	13.0	10.0	420	336 E3	R75MF 2560-3--
0.068 μF	6.0	12.0	13.0	10.0	420	336 E3	R75MF 2680-3--
0.068 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 2680-3--
0.082 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 2820-3--
0.10 μF	5.0	11.0	18.0	15.0	300	240 E3	R75MI 3100-3--
0.12 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3120-3--
0.15 μF	6.0	12.0	18.0	15.0	300	240 E3	R75MI 3150-3--
0.18 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3180-3--
0.22 μF	7.5	13.5	18.0	15.0	300	240 E3	R75MI 3220-3--
0.22 μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3220-7--
0.27 μF	8.5	14.5	18.0	15.0	300	240 E3	R75MI 3270-3--
0.27 μF	9.0	12.5	18.0	15.0	300	240 E3	R75MI 3270-7--
0.33 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3330-3--
0.33 μF	13.0	12.0	18.0	15.0	300	240 E3	R75MI 3330-7--
0.39 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3390-3--
0.47 μF	10.0	16.0	18.0	15.0	300	240 E3	R75MI 3470-3--
0.56 μF	11.0	19.0	18.0	15.0	300	240 E3	R75MI 3560-3--

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

Rated Cap.	400Vdc / 220Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.18 μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3180-3--
0.22 μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3220-3--
0.27 μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3270-3--
0.33 μF	6.0	15.0	26.5	22.5	180	144 E3	R75MN 3330-3--
0.39 μF	7.0	16.0	26.5	22.5	180	144 E3	R75MN 3390-3--
0.47 μF	7.0	16.0	26.5	22.5	180	144 E3	R75MN 3470-3--
0.56 μF	8.5	17.0	26.5	22.5	180	144 E3	R75MN 3560-3--
0.68 μF	10.0	18.5	26.5	22.5	180	144 E3	R75MN 3680-3--
0.82 μF	10.0	18.5	26.5	22.5	180	144 E3	R75MN 3820-3--
1.0 μF	11.0	20.0	26.5	22.5	180	144 E3	R75MN 4100-3--
1.2 μF	13.0	22.0	26.5	22.5	180	144 E3	R75MN 4120-3--
1.5 μF	13.0	22.0	26.5	22.5	180	144 E3	R75MN 4150-3--
0.56 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3560-3--
0.68 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3680-3--
0.82 μF	9.0	17.0	32.0	27.5	130	104 E3	R75MR 3820-3--
1.0 μF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4100-4--
1.2 μF	11.0	20.0	32.0	27.5	130	104 E3	R75MR 4120-3--
1.5 μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4150-3--
1.8 μF	13.0	22.0	32.0	27.5	130	104 E3	R75MR 4180-3--
2.2 μF	13.0	25.0	32.0	27.5	130	104 E3	R75MR 4220-4--
2.7 μF	14.0	28.0	32.0	27.5	130	104 E3	R75MR 4270-3--
3.3 μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4330-3--
3.9 μF	18.0	33.0	32.0	27.5	130	104 E3	R75MR 4390-3--
4.7 μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4470-3--
5.6 μF	22.0	37.0	32.0	27.5	130	104 E3	R75MR 4560-3--
1.2 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4120-3--
1.5 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4150-3--
1.8 μF	11.0	22.0	41.5	37.5	70	56 E3	R75MW4180-3--
2.2 μF	11.0	22.0	41.5	37.5	70	56 3E	R75MW4220-3--
2.7 μF	13.0	24.0	41.5	37.5	70	56 3E	R75MW4270-3--
3.3 μF	16.0	28.5	41.5	37.5	70	56 3E	R75MW4330-3--
3.9 μF	16.0	28.5	41.5	37.5	70	56 3E	R75MW4390-3--
4.7 μF	19.0	32.0	41.5	37.5	70	56 3E	R75MW4470-3--
5.6 μF	19.0	32.0	41.5	37.5	70	56 3E	R75MW4560-3--
6.8 μF	19.0	32.0	41.5	37.5	70	56 E3	R75MW4680-3--
8.2 μF	20.0	40.0	41.5	37.5	70	56 E3	R75MW4820-3--
10.0 μF	20.0	40.0	41.5	37.5	70	56 3E	R75MW5100-4--
12.0 μF	24.0	44.0	41.5	37.5	70	56 3E	R75MW5120-3--
15.0 μF	30.0	45.0	41.5	37.5	70	56 E3	R75MW5150-3--

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

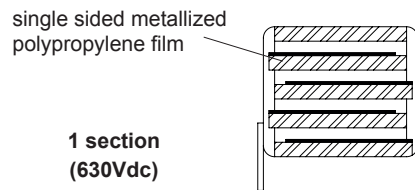
All dimensions are mm.

Note: If the working voltage (V) is lower than the rated voltage (V<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 151)

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

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



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			
1000 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1100-4-
1200 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1120-4-
1500 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1150-4-
1800 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1180-4-
2200 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1220-4-
2700 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1270-4-
3300 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1330-4-
3900 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1390-4-
4700 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1470-4-
5600 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1560-4-
6800 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1680-4-
8200 pF	4.0	9.0	10.0	7.5	600	760 E3	R75PD1820-4-
0.010 μF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2100-4-
0.012 μF	5.0	10.5	10.0	7.5	600	760 E3	R75PD2120-4-
0.015 μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2150-3-
0.018 μF	6.0	12.0	10.5	7.5	600	760 E3	R75PD2180-3-
1000 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1100-0-
1200 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1120-0-
1500 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1150-0-
1800 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1180-0-
2200 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1220-0-
2700 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1270-0-
3300 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1330-0-
3900 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1390-0-
4700 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1470-0-
5600 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1560-0-
6800 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1680-0-
8200 pF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 1820-0-
0.010 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 2100-3-
0.012 μF	4.0	9.0	13.0	10.0	550	690 E3	R75PF 2120-3-
0.015 μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF 2150-3-
0.018 μF	5.0	11.0	13.0	10.0	550	690 E3	R75PF 2180-3-
0.022 μF	6.0	12.0	13.0	10.0	550	690 E3	R75PF 2220-3-
0.027 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2270-0-
0.033 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2330-0-
0.039 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2390-3-
0.047 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2470-3-
0.056 μF	5.0	11.0	18.0	15.0	400	504 E3	R75PI 2560-3-
0.068 μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2680-3-
0.082 μF	6.0	12.0	18.0	15.0	400	504 E3	R75PI 2820-3-
0.10 μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3100-3-
0.10 μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3100-7-
0.12 μF	7.5	13.5	18.0	15.0	400	504 E3	R75PI 3120-3-
0.12 μF	9.0	12.5	18.0	15.0	400	504 E3	R75PI 3120-7-
0.15 μF	8.5	14.5	18.0	15.0	400	504 E3	R75PI 3150-3-
0.15 μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3150-7-
0.18 μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3180-3-
0.18 μF	13.0	12.0	18.0	15.0	400	504 E3	R75PI 3180-7-
0.22 μF	10.0	16.0	18.0	15.0	400	504 E3	R75PI 3220-3-
0.27 μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3270-3-
0.33 μF	11.0	19.0	18.0	15.0	400	504 E3	R75PI 3330-3-

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

Rated Cap.	630Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.082 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 2820-3-
0.10 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3100-3-
0.12 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3120-3-
0.15 μF	6.0	15.0	26.5	22.5	250	315 E3	R75PN 3150-3-
0.18 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN 3180-3-
0.22 μF	7.0	16.0	26.5	22.5	250	315 E3	R75PN 3220-3-
0.27 μF	8.5	17.0	26.5	22.5	250	315 E3	R75PN 3270-3-
0.33 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN 3330-3-
0.39 μF	10.0	18.5	26.5	22.5	250	315 E3	R75PN 3390-3-
0.47 μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN 3470-3-
0.56 μF	11.0	20.0	26.5	22.5	250	315 E3	R75PN 3560-3-
0.68 μF	13.0	22.0	26.5	22.5	250	315 E3	R75PN 3680-3-
0.39 μF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3390-3-
0.47 μF	9.0	17.0	32.0	27.5	180	227 E3	R75PR 3470-4-
0.56 μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3560-3-
0.68 μF	11.0	20.0	32.0	27.5	180	227 E3	R75PR 3680-3-
0.82 μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 3820-3-
1.0 μF	13.0	22.0	32.0	27.5	180	227 E3	R75PR 4100-3-
1.2 μF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4120-4-
1.5 μF	14.0	28.0	32.0	27.5	180	227 E3	R75PR 4150-3-
1.8 μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4180-3-
2.2 μF	18.0	33.0	32.0	27.5	180	227 E3	R75PR 4220-3-
2.7 μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4270-3-
3.3 μF	22.0	37.0	32.0	27.5	180	227 E3	R75PR 4330-3-
0.68 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3680-3-
0.82 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW3820-3-
1.0 μF	11.0	22.0	41.5	37.5	90	113 E3	R75PW4100-3-
1.2 μF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4120-3-
1.5 μF	13.0	24.0	41.5	37.5	90	113 E3	R75PW4150-3-
1.8 μF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4180-3-
2.2 μF	16.0	28.5	41.5	37.5	90	113 E3	R75PW4220-3-
2.7 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4270-3-
3.3 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4330-3-
3.9 μF	19.0	32.0	41.5	37.5	90	113 E3	R75PW4390-4-
4.7 μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4470-3-
5.6 μF	20.0	40.0	41.5	37.5	90	113 E3	R75PW4560-4-
6.8 μF	24.0	44.0	41.5	37.5	90	113 E3	R75PW4680-3-
8.2 μF	30.0	45.0	41.5	37.5	90	113 E3	R75PW4820-3-

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

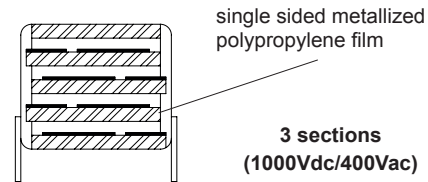
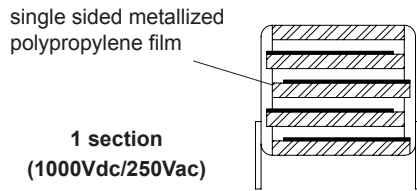
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.

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 151)

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

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



Rated Cap.	1000Vdc / 250Vac* Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
0.012 μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2120--0--
0.015 μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2150--0--
0.018 μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2180--0--
0.022 μF	5.0	11.0	18.0	15.0	450	900 E3	R75QI 2220--0--
0.027 μF	6.0	12.0	18.0	15.0	450	900 E3	R75QI 2270--0--
0.033 μF	6.0	12.0	18.0	15.0	450	900 E3	R75QI 2330--0--
0.039 μF	7.5	13.5	18.0	15.0	450	900 E3	R75QI 2390--0--
0.047 μF	7.5	13.5	18.0	15.0	450	900 E3	R75QI 2470--0--
0.047 μF	9.0	12.5	18.0	15.0	450	900 E3	R75QI 2470--6--
0.056 μF	8.5	14.5	18.0	15.0	450	900 E3	R75QI 2560--0--
0.056 μF	9.0	12.5	18.0	15.0	450	900 E3	R75QI 2560--6--
0.068 μF	8.5	14.5	18.0	15.0	450	900 E3	R75QI 2680--0--
0.068 μF	13.0	12.0	18.0	15.0	450	900 E3	R75QI 2680--6--
0.082 μF	10.0	16.0	18.0	15.0	450	900 E3	R75QI 2820--0--
0.10 μF	11.0	19.0	18.0	15.0	450	900 E3	R75QI 3100--0--
0.047 μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2470--0--
0.056 μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2560--0--
0.068 μF	6.0	15.0	26.5	22.5	300	600 E3	R75QN 2680--0--
0.082 μF	7.0	16.0	26.5	22.5	300	600 E3	R75QN 2820--0--
0.10 μF	7.0	16.0	26.5	22.5	300	600 E3	R75QN 3100--0--
0.12 μF	8.5	17.0	26.5	22.5	300	600 E3	R75QN 3120--0--
0.15 μF	10.0	18.5	26.5	22.5	300	600 E3	R75QN 3150--0--
0.18 μF	10.0	18.5	26.5	22.5	300	600 E3	R75QN 3180--0--
0.22 μF	11.0	20.0	26.5	22.5	300	600 E3	R75QN 3220--0--
0.15 μF	9.0	17.0	32.0	27.5	200	400 E3	R75QR 3150--0--
0.18 μF	9.0	17.0	32.0	27.5	200	400 E4	R75QR 3180--0--
0.22 μF	11.0	20.0	32.0	27.5	200	400E4	R75QR 3220--1--
0.27 μF	11.0	20.0	32.0	27.5	200	400 E3	R75QR 3270--0--
0.33 μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3330--0--
0.39 μF	13.0	22.0	32.0	27.5	200	400 E3	R75QR 3390--0--
0.47 μF	13.0	25.0	32.0	27.5	200	400 E3	R75QR 3470--1--
0.56 μF	14.0	28.0	32.0	27.5	200	400 E3	R75QR 3560--1--
0.68 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3680--0--
0.82 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 3820--0--
1.0 μF	18.0	33.0	32.0	27.5	200	400 E3	R75QR 4100--0--
1.2 μF	22.0	37.0	32.0	27.5	200	400 E4	R75QR 4120--0--
1.5 μF	22.0	37.0	32.0	27.5	200	400 E3	R75QR 4150--0--
0.27 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3270--0--
0.33 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3330--0--
0.39 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3390--0--
0.47 μF	11.0	22.0	41.5	37.5	150	300 E3	R75QW3470--0--
0.56 μF	13.0	24.0	41.5	37.5	150	300 E3	R75QW3560--0--
0.68 μF	13.0	24.0	41.5	37.5	150	300E3	R75QW3680--0--
0.82 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW3820--0--
1.0 μF	16.0	28.5	41.5	37.5	150	300 E3	R75QW4100--0--
1.2 μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4120--0--
1.5 μF	19.0	32.0	41.5	37.5	150	300 E3	R75QW4150--0--
1.8 μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4180--0--
2.2 μF	20.0	40.0	41.5	37.5	150	300 E3	R75QW4220--0--
2.7 μF	24.0	44.0	41.5	37.5	150	300 E3	R75QW4270--0--
3.3 μF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4330--0--
3.9 μF	30.0	45.0	41.5	37.5	150	300 E3	R75QW4390--0--

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

Rated Cap.	1000Vdc / 400Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
220 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0220--3--
270 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0270--3--
330 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0330--3--
390 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0390--3--
470 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0470--3--
560 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0560--3--
680 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0680--3--
820 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 0820--3--
1000 pF	3.0	8.0	10.0	7.5	4000	8.0 E6	R75QD 1100--3--
1200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1120--3--
1500 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1150--3--
1800 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1180--3--
2200 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1220--3--
2700 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1270--3--
3300 pF	4.0	9.0	10.0	7.5	4000	8.0 E6	R75QD 1330--3--
3900 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1390--3--
4700 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1470--3--
5600 pF	5.0	10.5	10.0	7.5	4000	8.0 E6	R75QD 1560--3--
6800 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1680--3--
8200 pF	6.0	12.0	10.5	7.5	4000	8.0 E6	R75QD 1820--3--

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

All dimensions are mm.

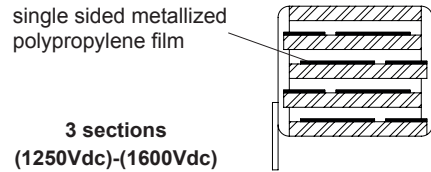
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.

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

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

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

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



Rated Cap.	1250Vdc / 600Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	p			
8200 pF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 1820-3--
0.010 μF	5.0	11.0	18.0	15.0	3300	825 E4	R75RI 2100-3--
0.012 μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2120-3--
0.015 μF	6.0	12.0	18.0	15.0	3300	825 E4	R75RI 2150-3--
0.018 μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2180-3--
0.022 μF	7.5	13.5	18.0	15.0	3300	825 E4	R75RI 2220-3--
0.022 μF	9.0	12.5	18.0	15.0	3300	825 E4	R75RI 2220-7--
0.027 μF	8.5	14.5	18.0	15.0	3300	825 E4	R75RI 2270-3--
0.027 μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2270-7--
0.033 μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2330-3--
0.033 μF	13.0	12.0	18.0	15.0	3300	825 E4	R75RI 2330-7--
0.039 μF	10.0	16.0	18.0	15.0	3300	825 E4	R75RI 2390-3--
0.047 μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2470-3--
0.056 μF	11.0	19.0	18.0	15.0	3300	825 E4	R75RI 2560-3--
0.033 μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2330-3--
0.039 μF	6.0	15.0	26.5	22.5	2100	525 E4	R75RN 2390-3--
0.047 μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2470-3--
0.056 μF	7.0	16.0	26.5	22.5	2100	525 E4	R75RN 2560-3--
0.068 μF	8.5	17.0	26.5	22.5	2100	525 E4	R75RN 2680-3--
0.082 μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 2820-3--
0.10 μF	10.0	18.5	26.5	22.5	2100	525 E4	R75RN 3100-3--
0.12 μF	11.0	20.0	26.5	22.5	2100	525 E4	R75RN 3120-3--
0.15 μF	13.0	22.0	26.5	22.5	2100	525 E4	R75RN 3150-3--
0.10 μF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3100-4--
0.12 μF	9.0	17.0	32.0	27.5	500	125 E4	R75RR 3120-4--
0.15 μF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3150-4--
0.18 μF	11.0	20.0	32.0	27.5	500	125 E4	R75RR 3180-4--
0.22 μF	13.0	22.0	32.0	27.5	500	125 E4	R75RR 3220-4--
0.27 μF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3270-4--
0.33 μF	13.0	25.0	32.0	27.5	500	125 E4	R75RR 3330-4--
0.39 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3390-4--
0.47 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3470-4--
0.56 μF	18.0	33.0	32.0	27.5	500	125 E4	R75RR 3560-4--
0.68 μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3680-4--
0.82 μF	22.0	37.0	32.0	27.5	500	125 E4	R75RR 3820-4--
0.27 μF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3270-3--
0.33 μF	11.0	22.0	41.5	37.5	360	125 E4	R75RW3330-3--
0.39 μF	13.0	24.0	41.5	37.5	360	125 E4	R75RW3390-3--
0.47 μF	13.0	24.0	41.5	37.5	360	125 E4	R75RW3470-4--
0.56 μF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3560-4--
0.68 μF	16.0	28.5	41.5	37.5	360	125 E4	R75RW3680-4--
0.82 μF	19.0	32.0	41.5	37.5	360	125 E4	R75RW3820-4--
1.0 μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4100-3--
1.2 μF	20.0	40.0	41.5	37.5	360	125 E4	R75RW4120-4--
1.5 μF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4150-4--
1.8 μF	24.0	44.0	41.5	37.5	360	125 E4	R75RW4180-3--
2.2 μF	30.0	45.0	41.5	37.5	360	125 E4	R75RW4220-3--

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

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

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

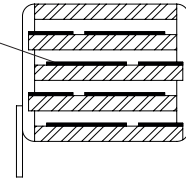
Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V<sub>R</sub>/V.  
The pulse characteristic K<sub>0</sub> depends on 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.

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

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

Rated Cap.	2000Vdc / 700Vac Std dimensions				Max dv/dt (V/μs)	Max K <sub>0</sub> (V <sup>2</sup> /μs)	Part Number
	B	H	L	ρ			
1000 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1100--4--
1200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1120--4--
1500 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1150--4--
1800 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1180--4--
2200 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1220--4--
2700 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1270--4--
3300 pF	4.0	10.0	18.0	15.0	9500	3800 E4	R75UI 1330--4--
3900 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1390--3--
4700 pF	5.0	11.0	18.0	15.0	9500	3800 E4	R75UI 1470--3--
5600 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1560--3--
6800 pF	6.0	12.0	18.0	15.0	9500	3800 E4	R75UI 1680--3--
8200 pF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 1820--3--
0.010 μF	7.5	13.5	18.0	15.0	9500	3800 E4	R75UI 2100--3--
0.012 μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2120--3--
0.012 μF	9.0	12.5	18.0	15.0	9500	3800 E4	R75UI 2120--7--
0.015 μF	8.5	14.5	18.0	15.0	9500	3800 E4	R75UI 2150--3--
0.015 μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2150--7--
0.018 μF	10.0	16.0	18.0	15.0	9500	3800 E4	R75UI 2180--3--
0.018 μF	13.0	12.0	18.0	15.0	9500	3800 E4	R75UI 2180--7--
0.022 μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2220--3--
0.027 μF	11.0	19.0	18.0	15.0	9500	3800 E4	R75UI 2270--3--
4700 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1470--3--
5600 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1560--3--
6800 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1680--3--
8200 pF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 1820--3--
0.010 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2100--3--
0.012 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2120--3--
0.015 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2150--3--
0.018 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2180--3--
0.022 μF	6.0	15.0	26.5	22.5	3500	1400 E4	R75UN 2220--3--
0.027 μF	7.0	16.0	26.5	22.5	3500	1400 E4	R75UN 2270--3--
0.033 μF	8.5	17.0	26.5	22.5	3500	1400 E4	R75UN 2330--3--
0.039 μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2390--3--
0.047 μF	10.0	18.5	26.5	22.5	3500	1400 E4	R75UN 2470--3--
0.056 μF	11.0	20.0	26.5	22.5	3500	1400 E4	R75UN 2560--3--
0.068 μF	13.0	22.0	26.5	22.5	3500	1400 E4	R75UN 2680--3--
0.047 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2470--3--
0.056 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2560--3--
0.068 μF	9.0	17.0	32.0	27.5	1000	400 E4	R75UR 2680--4--
0.082 μF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 2820--4--
0.10 μF	11.0	20.0	32.0	27.5	1000	400 E4	R75UR 3100--3--
0.12 μF	13.0	22.0	32.0	27.5	1000	400 E4	R75UR 3120--3--
0.15 μF	13.0	25.0	32.0	27.5	1000	400 E4	R75UR 3150--4--
0.18 μF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3180--3--
0.22 μF	14.0	28.0	32.0	27.5	1000	400 E4	R75UR 3220--4--
0.27 μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3270--3--
0.33 μF	18.0	33.0	32.0	27.5	1000	400 E4	R75UR 3330--4--
0.39 μF	22.0	37.0	32.0	37.5	1000	400 E4	R75UR 3390--3--
0.47 μF	22.0	37.0	32.0	27.5	1000	400 E4	R75UR 3470--4--
0.15 μF	11.0	22.0	41.5	37.5	500	200 E4	R75UW3150--3--
0.18 μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3180--3--
0.22 μF	13.0	24.0	41.5	37.5	500	200 E4	R75UW3220--3--
0.27 μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3270--3--
0.33 μF	16.0	28.5	41.5	37.5	500	200 E4	R75UW3330--3--
0.39 μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3390--3--
0.47 μF	19.0	32.0	41.5	37.5	500	200 E4	R75UW3470--3--
0.56 μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3560--4--
0.68 μF	20.0	40.0	41.5	37.5	500	200 E4	R75UW3680--3--
0.82 μF	24.0	44.0	41.5	37.5	500	200 E4	R75UW3820--4--
1.0 μF	24.0	44.0	41.5	37.5	500	200 E4	R75UW4100--3--

single sided metallized polypropylene film



3 sections  
(2000Vdc)

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.

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



**HIGH PERFORMANCES**  
**METALLIZED POLYPROPYLENE FILM CAPACITOR**  
**D.C. AND PULSE APPLICATIONS**  
PRODUCT CODE: **R75 (Digit 12: 0 to 9)**

**ELECTRICAL CHARACTERISTICS**

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

160Vdc - 250Vdc - 400Vdc - 630Vdc - 1000Vdc  
for 1 section.  
1250Vdc - 1600Vdc - 2000Vdc  
for 3 sections.

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

**Temperature derated voltage:**

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

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

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

**Capacitance range:**

1000 pF to 33 $\mu$ F for 1 section.

1000 pF to 2.2 $\mu$ F for 3 sections.

**Capacitance values:**

E12 series (IEC 60063 Norm).

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

$\pm 5\%$  (J);  $\pm 10\%$  (K);  $\pm 20\%$  (M).

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

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

**Dissipation factor (DF):**

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

kHz	$C \leq 0.1\mu\text{F}$	$0.1 < C \leq 1.0\mu\text{F}$	$1 < C \leq 4.7\mu\text{F}$	$C > 4.7\mu\text{F}$
1	$\leq 4$	$\leq 5$	$\leq 6$	$\leq 10$
10	$\leq 6$	$\leq 8$		
100	$\leq 25$			

**Insulation resistance:**

**Test conditions**

Temperature: +25 $\pm$ 5°C

Voltage charge time: 1min

Voltage charge: 100Vdc

**Performance**

$\geq 1 \times 10^5 \text{ M}\Omega$  for  $C \leq 0.33\mu\text{F}$  ( $5 \times 10^5 \text{ M}\Omega$ )\*

$\geq 30000 \text{ s}$  for  $C > 0.33\mu\text{F}$  (150000 s)\*

\* Typical value.

**Test voltage between terminations:**

1.6 $\times V_R$  applied for 2 s at +25°C  $\pm 5^\circ\text{C}$

**TEST METHOD AND PERFORMANCE**

**Damp heat, steady state:**

**Test conditions**

Temperature: +40°C  $\pm 2^\circ\text{C}$

Relative humidity (RH): 93%  $\pm 2\%$

Test duration: 56 days

**Performance**

Capacitance change  $|\Delta C/C|$ :  $\leq 2\%$

DF change ( $\Delta \text{tg}\delta$ ):  $\leq 10 \times 10^{-4}$  at 1kHz

Insulation resistance:  $\geq 50\%$  of initial limit.

**Endurance:**

**Test conditions**

Temperature: +85°C  $\pm 2^\circ\text{C}$

Test duration: 2000 h

Voltage applied: 1.25 $\times V_R$

**Performance**

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

DF change ( $\Delta \text{tg}\delta$ ):  $\leq 10 \times 10^{-4}$  at 10kHz for  $C \leq 1\mu\text{F}$

$\leq 10 \times 10^{-4}$  at 1kHz for  $C > 1\mu\text{F}$

Insulation resistance:  $\geq 50\%$  of initial limit.

**Resistance to soldering heat:**

**Test conditions**

Solder bath temperature: +260°C  $\pm 5^\circ\text{C}$

Dipping time (with heat screen): 10 s  $\pm 1 \text{ s}$

**Performance**

Capacitance change  $|\Delta C/C|$ :  $\leq 1\%$

DF change ( $\Delta \text{tg}\delta$ ):  $\leq 10 \times 10^{-4}$  at 10kHz for  $C \leq 1\mu\text{F}$

$\leq 10 \times 10^{-4}$  at 1kHz for  $C > 1\mu\text{F}$

Insulation resistance:  $\geq$  initial limit.

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

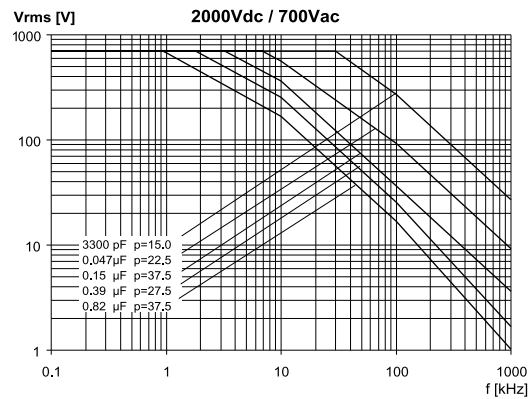
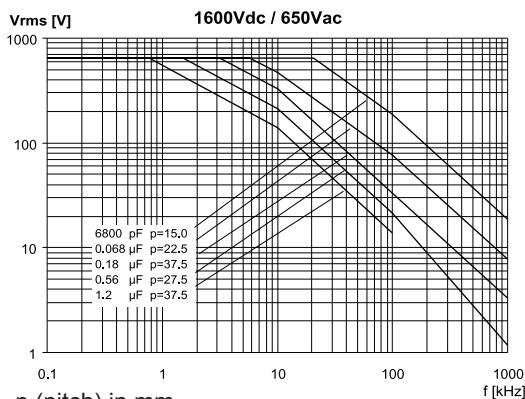
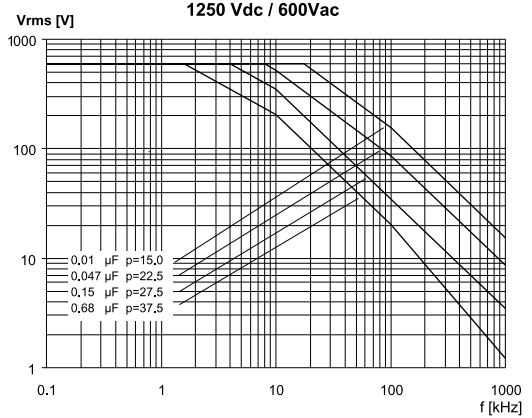
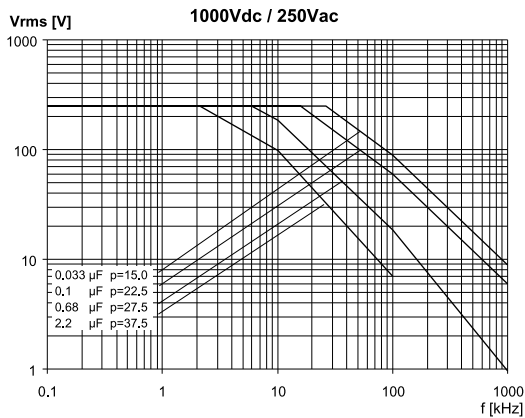
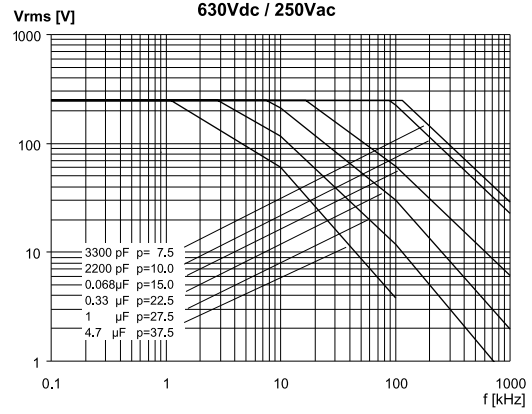
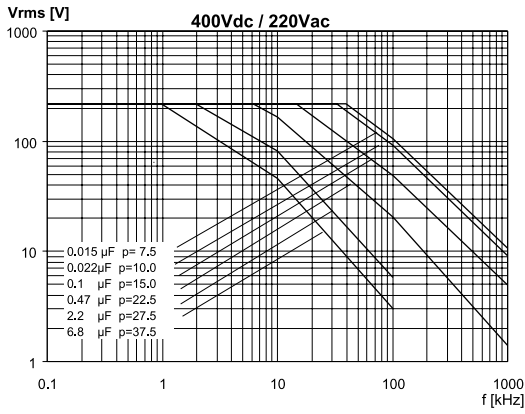
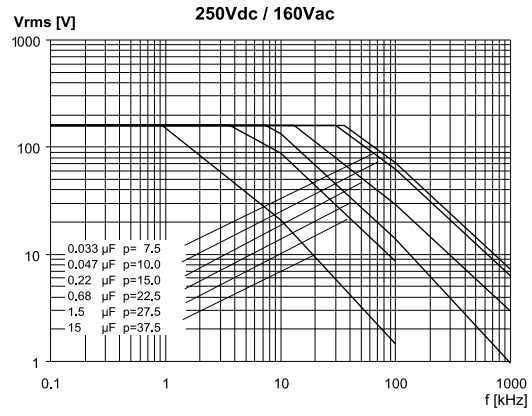
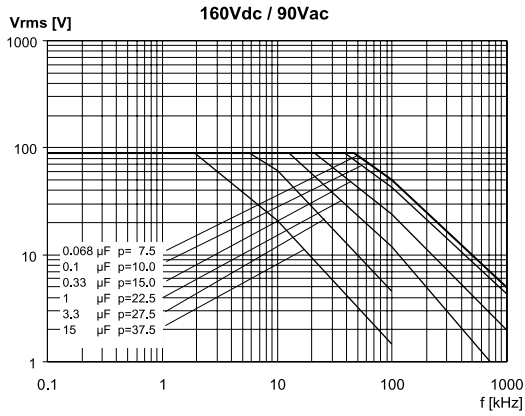
**Storage:** standard environmental conditions (see page 12)

**Performance**

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

**HIGH PERFORMANCES**  
**METALLIZED POLYPROPYLENE FILM CAPACITOR**  
**D.C. AND PULSE APPLICATIONS**  
PRODUCT CODE: R75 (Digit 12: 0 to 9)

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

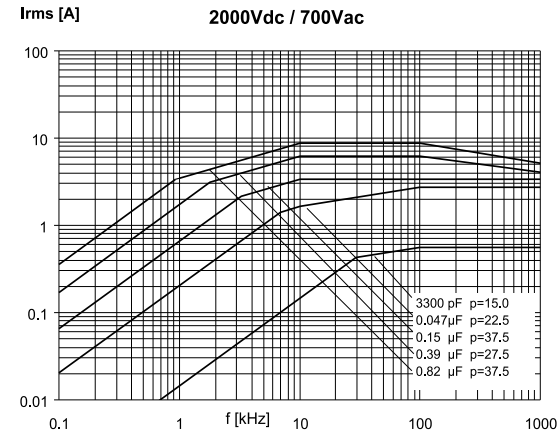
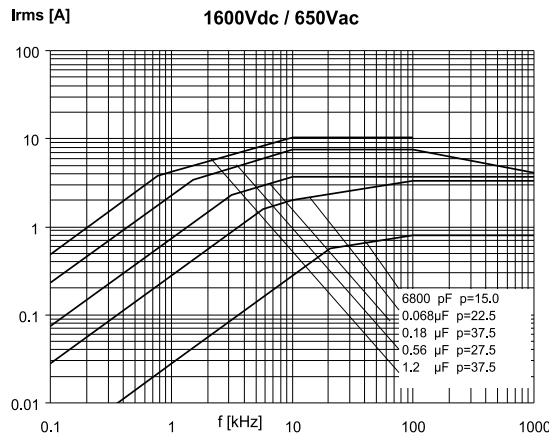
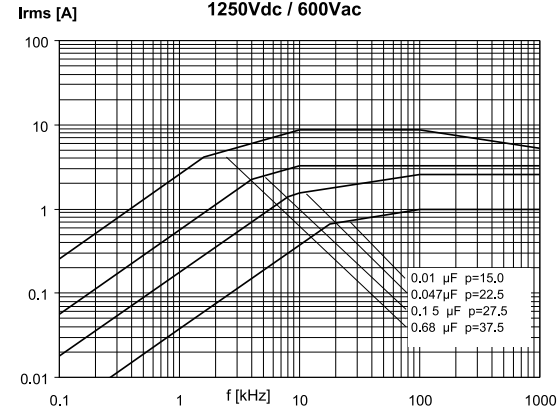
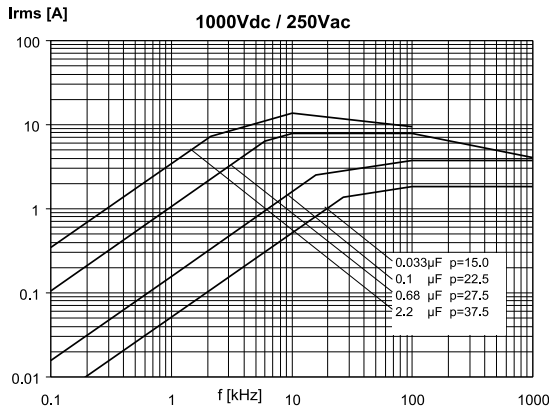
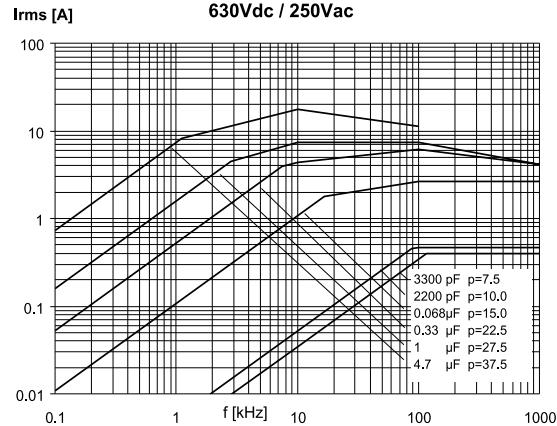
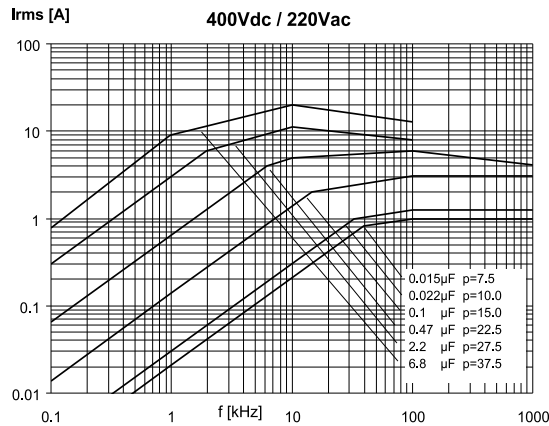
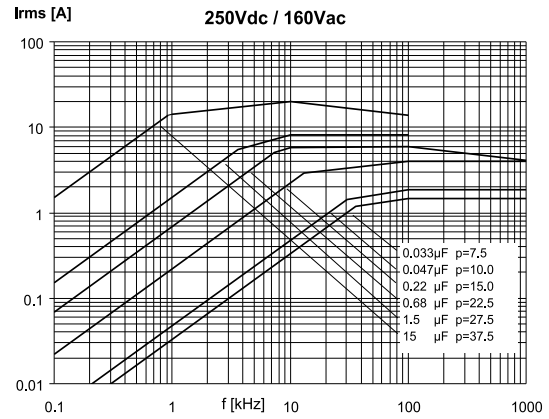
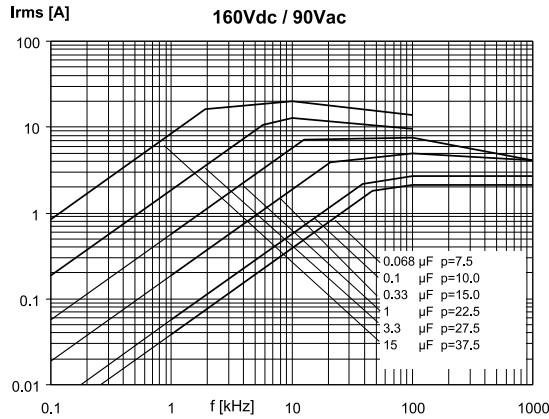


Note: p (pitch) in mm.

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

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

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



Note: p (pitch) in mm.  
05/2007