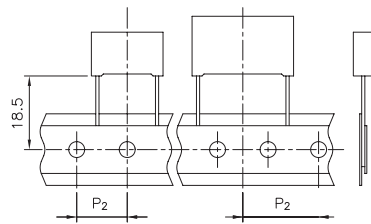
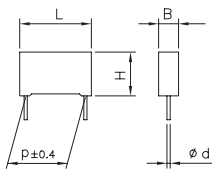


Taped

Fig.1 Fig.2



Ø d ±0.05	p ≤ 15	22.5 ≤ p ≤ 27.5	p = 37.5
	0.6 or 0.8*	0.8	1

\*See size table.  
All dimensions are in mm.

**METALLIZED POLYPROPYLENE FILM CAPACITOR**

Typical applications: P.F.C. (Power Factor Correction)  
PRODUCT CODE: R71

Pitch (mm)	Box thickness (B) (mm)	Maximum dimensions (mm)		
		B max	H max	L max
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

**MKP Series**

**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, capacitance, tolerance, D.C. rated voltage.
- Operating temperature range:** -40 to +110°C  
For temperatures between +105°C and 110°C a decreasing factor of 4% per degree C on the rated voltage  $V_R$  has to be applied.

**ELECTRICAL CHARACTERISTICS**

- Capacitance range:** 0.01µF to 22µF
- Capacitance tolerances** (measured at 1 kHz):  
±5% (J) ±10% (K); ±20% (M);  
Tolerance available upon requests

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

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

**Dissipation factor (DF):**

$tg\delta \times 10^{-4}$  at +25°C ±5°C: ≤10 (6)\* at 1kHz \*  
Typical value

**Insulation resistance:**

**Test conditions**

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

**Performance**

- ≥1 x 10<sup>5</sup> MΩ for C ≤ 0.33µF (5 x 10<sup>5</sup> MΩ)\*
  - ≥30000 s for C > 0.33µF (150000 s)\*
- \*Typical value

**Test voltage between terminations:**

1.6xV<sub>R</sub> applied for 2 s at +25°C ±5°C

**TEST METHOD AND PERFORMANCE**

**Damp heat, steady state:**

**Test conditions 1st**

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

**Test conditions 2nd**

- Temperature: +60°C ±2°C
- Relative humidity (RH): 95% ±2%
- Test duration: 500 hours

**Performance**

- Capacitance change |ΔC/C|: ≤5%
- Insulation resistance: ≥50% of initial limit.

**Endurance:**

**Test conditions**

- Temperature: +105°C ±2°C
- Test duration: 2000 h
- Voltage applied: 1.25xV<sub>R</sub>

**Performance**

- Capacitance change |ΔC/C|: ≤5%
- Insulation resistance: ≥50% of initial limit.

**Resistance to soldering heat:**

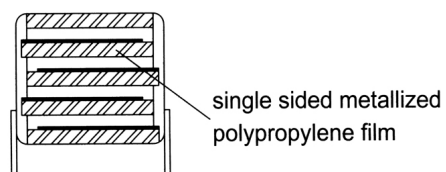
**Test conditions**

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

**Performance**

- Capacitance change |ΔC/C|: ≤2%

**Winding scheme**



**METALLIZED POLYPROPYLENE FILM CAPACITOR**

PRODUCT CODE: R71

Rated Cap.	420Vdc/220Vac Std dimensions					Ø d (mm)	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	13.0	10.0	0.6	250	210 E3	R71MF 2100--0--	
0.015 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 2150--0--	
0.022 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 2220--0--	
0.033 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 2330--0--	
0.047 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 2470--0--	
0.068 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 2680--3--	
0.10 µF	4.0	9.0	13.0	10.0	0.6	250	210 E3	R71MF 3100--3--	
0.15 µF	5.0	11.0	13.0	10.0	0.6	250	210 E3	R71MF 3150--3--	
0.22 µF	6.0	12.0	13.0	10.0	0.6	250	210 E3	R71MF 3220--3--	
0.10 µF	5.0	11.0	18.0	15.0	0.6	160	134 E3	R71MI 3100--0--	
0.15 µF	5.0	11.0	18.0	15.0	0.6	160	134 E3	R71MI 3150--0--	
0.22 µF	5.0	11.0	18.0	15.0	0.6	160	134 E3	R71MI 3220--0--	
0.33 µF	6.0	12.0	18.0	15.0	0.6	160	134 E3	R71MI 3330--0--	
0.47 µF	7.5	13.5	18.0	15.0	0.6	160	134 E3	R71MI 3470--0--	
0.47 µF	6.0	17.5	18.0	15.0	0.6	160	134 E3	R71MI 3470--1--	
0.47 µF	9.0	12.5	18.0	15.0	0.6	160	134 E3	R71MI 3470--2--	
0.68 µF	6.0	17.5	18.0	15.0	0.6	160	134 E3	R71MI 3680--4--	
0.68 µF	8.5	14.5	18.0	15.0	0.6	160	134 E3	R71MI 3680--3--	
0.68 µF	13.0	12.0	18.0	15.0	0.8	160	134 E3	R71MI 3680--2--	
1.0 µF	7.5	18.5	18.0	15.0	0.8	160	134 E3	R71MI 4100--4-M	
1.0 µF	10.0	16.0	18.0	15.0	0.8	160	134 E3	R71MI 4100--3--	
1.5 µF	11.0	19.0	18.0	15.0	0.8	160	134 E3	R71MI 4150--3--	
0.22 µF	6.0	15.0	26.5	22.5	0.8	100	84 E3	R71MN 3220--0--	
0.33 µF	6.0	15.0	26.5	22.5	0.8	100	84 E3	R71MN 3330--0--	
0.47 µF	6.0	15.0	26.5	22.5	0.8	100	84 E3	R71MN 3470--0--	
0.68 µF	6.0	15.0	26.5	22.5	0.8	100	84 E3	R71MN 3680--0--	
1.0 µF	7.0	16.0	26.5	22.5	0.8	100	84 E3	R71MN 4100--3--	
1.5 µF	8.5	17.0	26.5	22.5	0.8	100	84 E3	R71MN 4150--3-M	
1.5 µF	10.0	18.5	26.5	22.5	0.8	100	84 E3	R71MN 4150--0--	
2.2 µF	10.0	18.5	26.5	22.5	0.8	100	84 E3	R71MN 4220--4-M	
2.2 µF	11.0	20.0	26.5	22.5	0.8	100	84 E3	R71MN 4220--3--	
3.3 µF	13.0	22.0	26.5	22.5	0.8	100	84 E3	R71MN 4330--3--	
0.68 µF	9.0	17.0	32.0	27.5	0.8	80	67 E3	R71MR 3680--0--	
1.0 µF	9.0	17.0	32.0	27.5	0.8	80	67 E3	R71MR 4100--0--	
1.5 µF	11.0	20.0	32.0	27.5	0.8	80	67 E3	R71MR 4150--0--	
2.2 µF	13.0	22.0	32.0	27.5	0.8	80	67 E3	R71MR 4220--0--	
3.3 µF	14.0	28.0	32.0	27.5	0.8	80	67 E3	R71MR 4330--3--	
4.7 µF	18.0	33.0	32.0	27.5	0.8	80	67 E3	R71MR 4470--0--	
6.8 µF	22.0	37.0	32.0	27.5	0.8	80	67 E3	R71MR 4680--0--	
3.3 µF	11.0	22.0	41.5	37.5	1.0	60	50 E3	R71MW4330--0--	
4.7 µF	16.0	28.5	41.5	37.5	1.0	60	50 E3	R71MW4470--0--	
6.8 µF	19.0	32.0	41.5	37.5	1.0	60	50 E3	R71MW4680--0--	
10.0 µF	20.0	40.0	41.5	37.5	1.0	60	50 E3	R71MW5100--0--	
15.0 µF	24.0	44.0	41.5	37.5	1.0	60	50 E3	R71MW5150--0--	
22.0 µF	30.0	45.0	41.5	37.5	1.0	60	50 E3	R71MW5220--0--	

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

Rated Cap.	520Vdc/250Vac* Std dimensions					Ø d (mm)	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	13.0	10.0	0.6	300	312 E3	R71VF 2100--0--	
0.015 µF	4.0	9.0	13.0	10.0	0.6	300	312 E3	R71VF 2150--0--	
0.022 µF	4.0	9.0	13.0	10.0	0.6	300	312 E3	R71VF 2220--0--	
0.033 µF	4.0	9.0	13.0	10.0	0.6	300	312 E3	R71VF 2330--0--	
0.047 µF	4.0	9.0	13.0	10.0	0.6	300	312 E3	R71VF 2470--3--	
0.068 µF	4.0	9.0	13.0	10.0	0.6	300	312 E3	R71VF 2680--3--	
0.10 µF	5.0	11.0	13.0	10.0	0.6	300	312 E3	R71VF 3100--3--	
0.15 µF	6.0	12.0	13.0	10.0	0.6	300	312 E3	R71VF 3150--3--	
0.10 µF	5.0	11.0	18.0	15.0	0.6	200	208 E3	R71VI 3100--0--	
0.15 µF	5.0	11.0	18.0	15.0	0.6	200	208 E3	R71VI 3150--3--	
0.22 µF	6.0	12.0	18.0	15.0	0.6	200	208 E3	R71VI 3220--3--	
0.22 µF	6.0	17.5	18.0	15.0	0.6	200	208 E3	R71VI 3220--1--	
0.33 µF	6.0	17.5	18.0	15.0	0.6	200	208 E3	R71VI 3330--4--	
0.33 µF	7.5	13.5	18.0	15.0	0.6	200	208 E3	R71VI 3330--3--	
0.33 µF	9.0	12.5	18.0	15.0	0.6	200	208 E3	R71VI 3330--2--	
0.47 µF	8.5	14.5	18.0	15.0	0.6	200	208 E3	R71VI 3470--3--	
0.47 µF	7.5	18.5	18.0	15.0	0.8	200	208 E3	R71VI 3470--1--	
0.47 µF	13.0	12.0	18.0	15.0	0.8	200	208 E3	R71VI 3470--2--	
0.68 µF	10.0	16.0	18.0	15.0	0.8	200	208 E3	R71VI 3680--3--	
1.0 µF	11.0	19.0	18.0	15.0	0.8	200	208 E3	R71VI 4100--3-M	
0.22 µF	6.0	15.0	26.5	22.5	0.8	120	125 E3	R71VN 3220--0--	
0.33 µF	6.0	15.0	26.5	22.5	0.8	120	125 E3	R71VN 3330--0--	
0.47 µF	6.0	15.0	26.5	22.5	0.8	120	125 E3	R71VN 3470--3--	
0.68 µF	7.0	16.0	26.5	22.5	0.8	120	125 E3	R71VN 3680--3--	
1.0 µF	10.0	18.5	26.5	22.5	0.8	120	125 E3	R71VN 4100--3--	
1.5 µF	11.0	20.0	26.5	22.5	0.8	120	125 E3	R71VN 4150--3--	
2.2 µF	13.0	22.0	26.5	22.5	0.8	120	125 E3	R71VN 4220--3--	
0.68 µF	9.0	17.0	32.0	27.5	0.8	100	104 E3	R71VR 3680--0--	
1.0 µF	9.0	17.0	32.0	27.5	0.8	100	104 E3	R71VR 4100--3--	
1.0 µF	11.0	20.0	32.0	27.5	0.8	100	104 E3	R71VR 4100--0--	
1.5 µF	11.0	20.0	32.0	27.5	0.8	100	104 E3	R71VR 4150--0--	
2.2 µF	13.0	25.0	32.0	27.5	0.8	100	104 E3	R71VR 4220--3--	
2.2 µF	14.0	28.0	32.0	27.5	0.8	100	104 E3	R71VR 4220--0--	
3.3 µF	14.0	28.0	32.0	27.5	0.8	100	104 E3	R71VR 4330--3--	
3.3 µF	18.0	33.0	32.0	27.5	0.8	100	104 E3	R71VR 4330--0--	
4.7 µF	18.0	33.0	32.0	27.5	0.8	100	104 E3	R71VR 4470--3--	
4.7 µF	22.0	37.0	32.0	27.5	0.8	100	104 E3	R71VR 4470--0--	
6.8 µF	22.0	37.0	32.0	27.5	0.8	100	104 E3	R71VR 4680--3--	
2.2 µF	11.0	22.0	41.5	37.5	1.0	70	73 E3	R71VW 4220--0--	
3.3 µF	13.0	24.0	41.5	37.5	1.0	70	73 E3	R71VW 4330--3--	
3.3 µF	16.0	28.5	41.5	37.5	1.0	70	73 E3	R71VW 4330--0--	
4.7 µF	16.0	28.5	41.5	37.5	1.0	70	73 E3	R71VW 4470--0--	
6.8 µF	19.0	32.0	41.5	37.5	1.0	70	73 E3	R71VW 4680--3--	
6.8 µF	20.0	40.0	41.5	37.5	1.0	70	73 E3	R71VW 4680--0--	
10.0 µF	20.0	40.0	41.5	37.5	1.0	70	73 E3	R71VW 5100--3--	
10.0 µF	24.0	44.0	41.5	37.5	1.0	70	73 E3	R71VW 5100--0--	
15.0 µF	24.0	44.0	41.5	37.5	1.0	70	73 E3	R71VW 5150--3--	
15.0 µF	30.0	45.0	41.5	37.5	1.0	70	73 E3	R71VW 5150--0--	
22.0 µF	30.0	45.0	41.5	37.5	1.0	70	73 E3	R71VW 5220--0--	

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

All dimensions are in mm.

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitors 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 characteristics K<sub>0</sub> depends on the voltage waveform and in any case it cannot overcome the value given in the above table.

\* Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors at page 145.

Table 1

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		12.70	2 10.0/15.0	DQ
AMMO-PACK		19.05	3 22.5	DQ
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≥15mm)	30 <sup>+5</sup> 25 <sup>+2/-1</sup>			40 50

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

**METALLIZED POLYPROPYLENE FILM CAPACITOR**

PRODUCT CODE: R71

Rated Cap.	630Vdc/275Vac* Std dimensions				Ø d (mm)	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	13.0	10.0	0.6	400	504 E3	R71PF 2100-3--
0.015 µF	4.0	9.0	13.0	10.0	0.6	400	504 E3	R71PF 2150-3--
0.022 µF	4.0	9.0	13.0	10.0	0.6	400	504 E3	R71PF 2220-3--
0.033 µF	5.0	11.0	13.0	10.0	0.6	400	504 E3	R71PF 2330-0--
0.047 µF	5.0	11.0	13.0	10.0	0.6	400	504 E3	R71PF 2470-3--
0.068 µF	6.0	12.0	13.0	10.0	0.6	400	504 E3	R71PF 2680-3--
0.1 µF	6.0	12.0	13.0	10.0	0.6	400	504 E3	R71PF 3100-3-M
0.010 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2100-0--
0.015 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2150-0--
0.022 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2220-0--
0.033 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2330-0--
0.047 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2470-0--
0.068 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 2680-0--
0.10 µF	5.0	11.0	18.0	15.0	0.6	250	315 E3	R71PI 3100-3--
0.15 µF	6.0	12.0	18.0	15.0	0.6	250	315 E3	R71PI 3150-3--
0.15 µF	6.0	17.5	18.0	15.0	0.6	250	315 E3	R71PI 3150-4--
0.22 µF	7.5	13.5	18.0	15.0	0.6	250	315 E3	R71PI 3220-3--
0.22 µF	6.0	17.5	18.0	15.0	0.6	250	315 E3	R71PI 3220-1--
0.22 µF	9.0	12.5	18.0	15.0	0.6	250	315 E3	R71PI 3220-2--
0.33 µF	8.5	14.5	18.0	15.0	0.6	250	315 E3	R71PI 3330-3--
0.33 µF	7.5	18.5	18.0	15.0	0.8	250	315 E3	R71PI 3330-1--
0.33 µF	9.0	12.5	18.0	15.0	0.6	250	315 E3	R71PI 3330-4-M
0.33 µF	13.0	12.0	18.0	15.0	0.8	250	315 E3	R71PI 3330-2--
0.47 µF	7.5	18.5	18.0	15.0	0.8	250	315 E3	R71PI 3470-4-M
0.47 µF	10.0	16.0	18.0	15.0	0.8	250	315 E3	R71PI 3470-3-M
0.68 µF	11.0	19.0	18.0	15.0	0.8	250	315 E3	R71PI 3680-3-M
0.15 µF	6.0	15.0	26.5	22.5	0.8	160	202 E3	R71PN 3150-0--
0.22 µF	6.0	15.0	26.5	22.5	0.8	160	202 E3	R71PN 3220-0--
0.33 µF	6.0	15.0	26.5	22.5	0.8	160	202 E3	R71PN 3330-3--
0.47 µF	7.0	16.0	26.5	22.5	0.8	160	202 E3	R71PN 3470-3--
0.68 µF	10.0	18.5	26.5	22.5	0.8	160	202 E3	R71PN 3680-3--
1.0 µF	10.0	18.5	26.5	22.5	0.8	160	202 E3	R71PN 4100-4-M
1.0 µF	11.0	20.0	26.5	22.5	0.8	160	202 E3	R71PN 4100-3--
0.68 µF	9.0	17.0	32.0	27.5	0.8	115	145 E3	R71PR 3680-0--
1.0 µF	11.0	20.0	32.0	27.5	0.8	115	145 E3	R71PR 4100-0--
1.5 µF	13.0	22.0	32.0	27.5	0.8	115	145 E3	R71PR 4150-0--
2.2 µF	14.0	28.0	32.0	27.5	0.8	115	145 E3	R71PR 4220-0--
3.3 µF	18.0	33.0	32.0	27.5	0.8	115	145 E3	R71PR 4330-0--
4.7 µF	22.0	37.0	32.0	27.5	0.8	115	145 E3	R71PR 4470-0--
1.5 µF	11.0	22.0	41.5	37.5	1.0	80	100 E3	R71PW 4150-0--
2.2 µF	13.0	24.0	41.5	37.5	1.0	80	100 E3	R71PW 4220-0--
3.3 µF	16.0	28.5	41.5	37.5	1.0	80	100 E3	R71PW 4330-0--
4.7 µF	19.0	32.0	41.5	37.5	1.0	80	100 E3	R71PW 4470-0--
6.8 µF	20.0	40.0	41.5	37.5	1.0	80	100 E3	R71PW 4680-0--
10.0 µF	24.0	44.0	41.5	37.5	1.0	80	100 E3	R71PW 5100-0--
15.0 µF	30.0	45.0	41.5	37.5	1.0	80	100 E3	R71PW 5150-0--

Rated Cap.	1000Vdc/275Vac* Std dimensions				Ø d (mm)	Max dv/dt (V/µs)	Max K <sub>0</sub> (V <sup>2</sup> /µs)	Part Number
	B	H	L	p				
0.22 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3220-0--
0.27 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3270-0--
0.33 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3330-1--
0.33 µF	11.0	20.0	32.0	27.5	0.8	180	360 E3	R71QR3330-0--
0.39 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3390-1--
0.39 µF	11.0	20.0	32.0	27.5	0.8	180	360 E3	R71QR3390-0--
0.47 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3470-1--
0.47 µF	13.0	22.0	32.0	27.5	0.8	180	360 E3	R71QR3470-0--
0.56 µF	9.0	17.0	32.0	27.5	0.8	180	360 E3	R71QR3560-1--
0.56 µF	13.0	22.0	32.0	27.5	0.8	180	360 E3	R71QR3560-0--
0.68 µF	11.0	20.0	32.0	27.5	0.8	180	360 E3	R71QR3680-1--
0.68 µF	14.0	28.0	32.0	27.5	0.8	180	360 E3	R71QR3680-0--
0.82 µF	11.0	20.0	32.0	27.5	0.8	180	360 E3	R71QR3820-1--
0.82 µF	14.0	28.0	32.0	27.5	0.8	180	360 E3	R71QR3820-0--
1.0 µF	13.0	22.0	32.0	27.5	0.8	180	360 E3	R71QR4100-1--
1.0 µF	18.0	33.0	32.0	27.5	0.8	180	360 E3	R71QR4100-0--
1.2 µF	13.0	25.0	32.0	27.5	0.8	180	360 E3	R71QR4120-1--
1.2 µF	18.0	33.0	32.0	27.5	0.8	180	360 E3	R71QR4120-0--
1.5 µF	14.0	28.0	32.0	27.5	0.8	180	360 E3	R71QR4150-1--
1.5 µF	18.0	33.0	32.0	27.5	0.8	180	360 E3	R71QR4150-0--
1.8 µF	14.0	28.0	32.0	27.5	0.8	180	360 E3	R71QR4360-1--
1.8 µF	22.0	37.0	32.0	27.5	0.8	180	360 E3	R71QR4180-0--
2.2 µF	18.0	33.0	32.0	27.5	0.8	180	360 E3	R71QR4220-1--
2.2 µF	22.0	37.0	32.0	27.5	0.8	180	360 E3	R71QR4220-0--
2.7 µF	18.0	33.0	32.0	27.5	0.8	180	360 E3	R71QR4270-1--
3.3 µF	22.0	37.0	32.0	27.5	0.8	180	360 E3	R71QR4330-1--
3.9 µF	22.0	37.0	32.0	27.5	0.8	180	360 E3	R71QR4390-1--
0.68 µF	11.0	22.0	41.5	37.5	1.0	150	300 E3	R71QW3680-0--
0.82 µF	13.0	24.0	41.5	37.5	1.0	150	300 E3	R71QW3820-0--
1.0 µF	11.0	22.0	41.5	37.5	1.0	150	300 E3	R71QW4100-1--
1.0 µF	13.0	24.0	41.5	37.5	1.0	150	300 E3	R71QW4100-0--
1.2 µF	11.0	22.0	41.5	37.5	1.0	150	300 E3	R71QW4120-1--
1.2 µF	16.0	28.5	41.5	37.5	1.0	150	300 E3	R71QW4120-0--
1.5 µF	11.0	22.0	41.5	37.5	1.0	150	300 E3	R71QW4150-1--
1.5 µF	16.0	28.5	41.5	37.5	1.0	150	300 E3	R71QW4150-0--
1.8 µF	13.0	24.0	41.5	37.5	1.0	150	300 E3	R71QW4180-1--
1.8 µF	19.0	32.0	41.5	37.5	1.0	150	300 E3	R71QW4180-0--
2.2 µF	16.0	28.5	41.5	37.5	1.0	120	240 E3	R71QW4220-1--
2.2 µF	19.0	32.0	41.5	37.5	1.0	120	240 E3	R71QW4220-0--
2.7 µF	16.0	28.5	41.5	37.5	1.0	120	240 E3	R71QW4270-1--
2.7 µF	20.0	40.0	41.5	37.5	1.0	120	240 E3	R71QW4270-0--
3.3 µF	19.0	32.0	41.5	37.5	1.0	120	240 E3	R71QW4330-1--
3.3 µF	24.0	44.0	41.5	37.5	1.0	120	240 E3	R71QW4330-0--
3.9 µF	19.0	32.0	41.5	37.5	1.0	120	240 E3	R71QW4390-1--
3.9 µF	24.0	44.0	41.5	37.5	1.0	120	240 E3	R71QW4390-0--
4.7 µF	20.0	40.0	41.5	37.5	1.0	80	160 E3	R71QW4470-1--
4.7 µF	24.0	44.0	41.5	37.5	1.0	80	160 E3	R71QW4470-0--
5.6 µF	20.0	40.0	41.5	37.5	1.0	80	160 E3	R71QW4560-1--
5.6 µF	30.0	45.0	41.5	37.5	1.0	80	160 E3	R71QW4560-0--
6.8 µF	24.0	44.0	41.5	37.5	1.0	80	160 E3	R71QW4680-1--
8.2 µF	24.0	44.0	41.5	37.5	1.0	80	160 E3	R71QW4820-1--
10.0 µF	30.0	45.0	41.5	37.5	1.0	80	160 E3	R71QW5100-1--

Mechanical version and packaging (table 1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: K (±10%); M (±20%) \_\_\_\_\_  
 All dimensions are in mm.

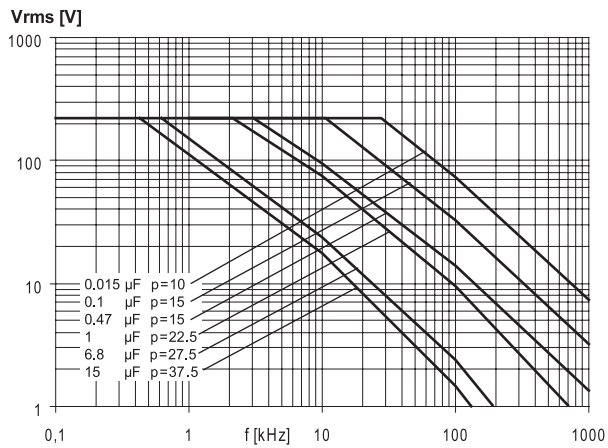
Mechanical version and packaging (Table 1) \_\_\_\_\_  
 Internal use \_\_\_\_\_  
 Tolerance: J (±5%); K (±10%); M (±20%) \_\_\_\_\_

Note: If the working voltage (V) is lower than the rated voltage (V<sub>R</sub>), the capacitors 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 characteristics K<sub>0</sub> depends on the voltage waveform and in any case it cannot overcome the value given in the above table.  
 \* Not suitable for across-the-line applications. Please refer to Interference Suppression Capacitors at page 145.

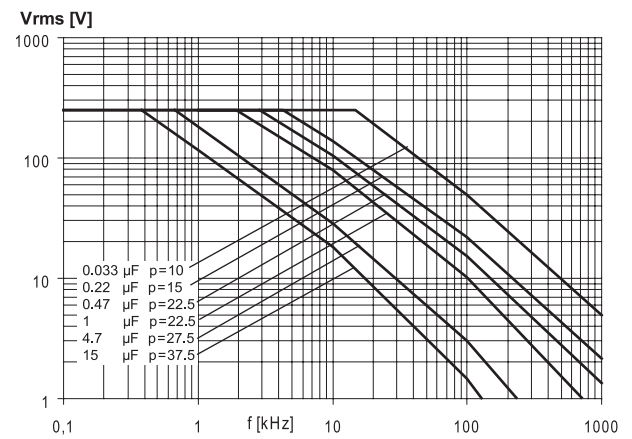
**METALLIZED POLYPROPYLENE FILM CAPACITOR**

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

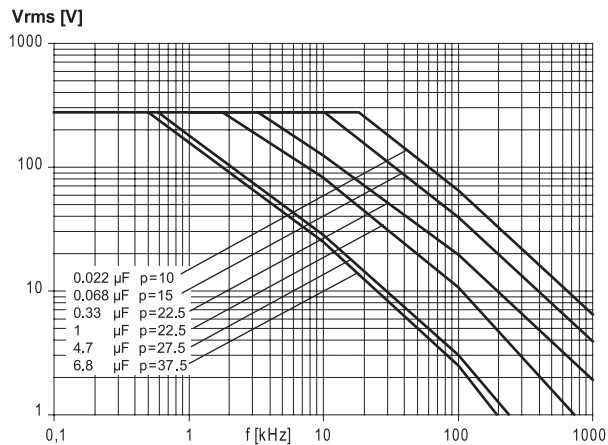
**420Vdc / 220Vac**



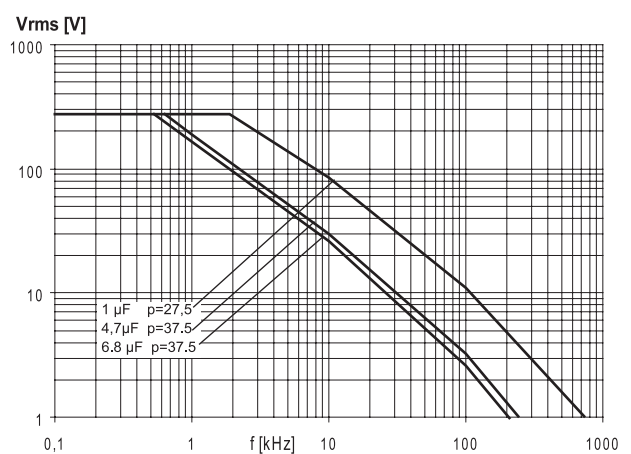
**520Vdc / 250Vac**



**630Vdc / 275Vac**



**1000Vdc / 275Vac**

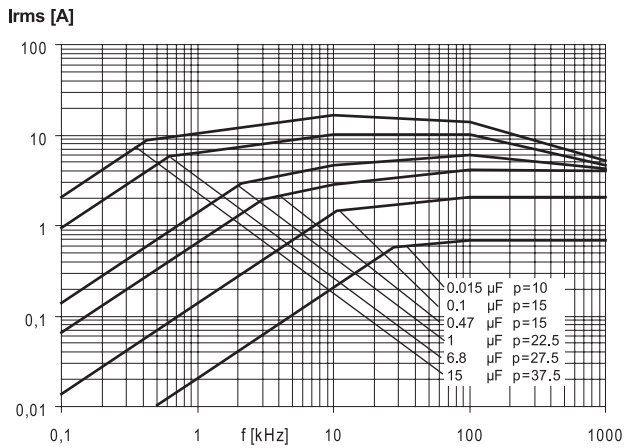


Note: p (pitch) in mm.

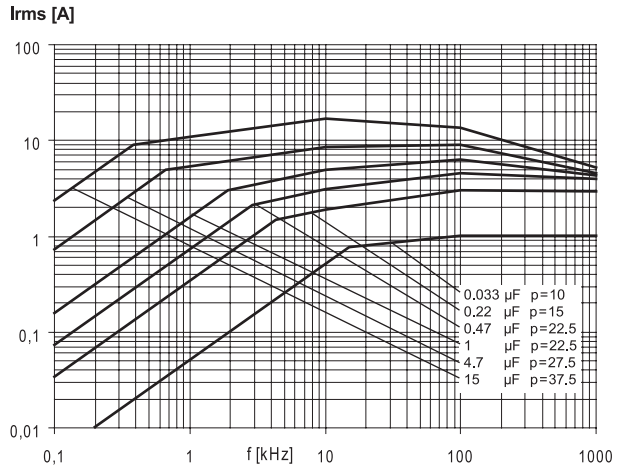
**METALLIZED POLYPROPYLENE FILM CAPACITOR**

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

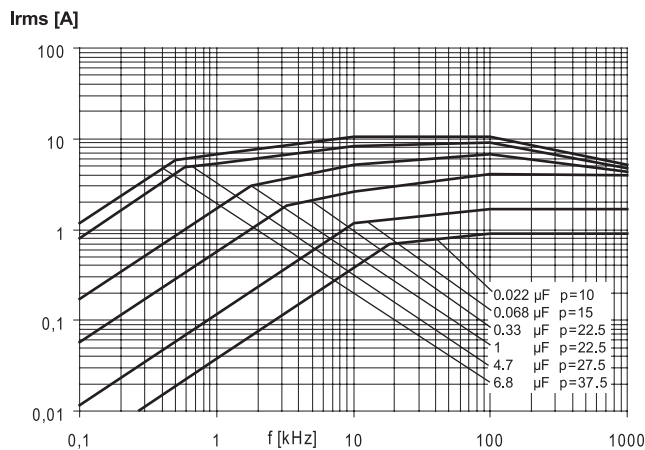
**420Vdc / 220Vac**



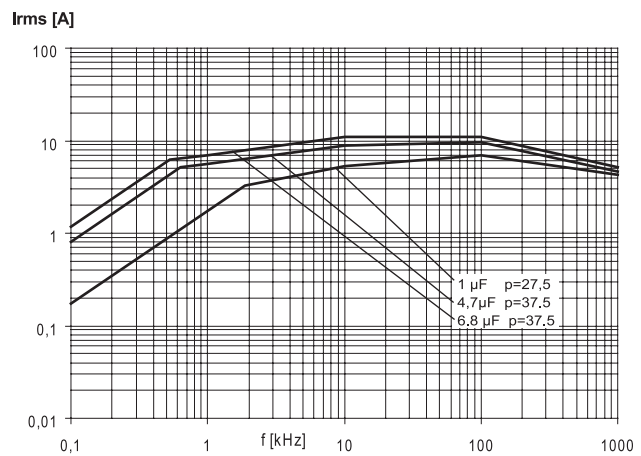
**520Vdc / 250Vac**



**630Vdc / 275Vac**



**1000Vdc / 275Vac**



Note: p (pitch) in mm.

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