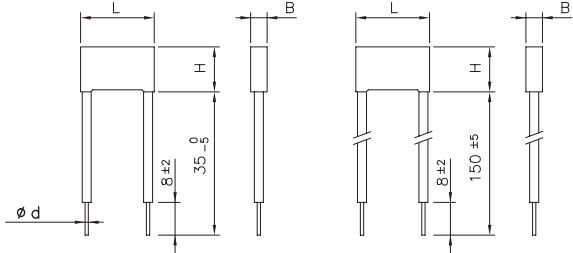


**X2 CLASS (IEC 60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES**

Typical applications: interference suppression and «across-the-line» applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

PRODUCT CODE: **R46**

Insulated rigid leads Insulated flexible leads 0.5mm²



Note: R.46 series has replaced the 1.40 series and 1.47 series. For new design we suggest the use of the R.46 series.

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

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

*See size table.
All dimensions are in mm.

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, rated voltage, capacitor class, dielectric code, climatic category, passive flammability category, manufacturing date code, approvals, manufacturing plant.
- Climatic category:** 40/110/56 IEC 60068-1

Operating temperature range: -40 to +110°C
Related documents: IEC 60384-14, EN 60384-14.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 275Vac (50/60Hz) / 560 Vdc
300Vac (50/60Hz) / 630 Vdc

Capacitance range: 0.01µF to 10µF
Capacitance values: E6 series (IEC 60063 Norm).
Capacitance tolerances (measured at 1 kHz):
±10% (K); ±20% (M);
tolerance ±5% (J) available upon request

Dissipation factor (DF):
tgδ 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
≥1x10⁵ MΩ (5x10⁵ MΩ)* for C ≤ 0.33µF
≥30000 s (150000 s)* for C > 0.33µF
* Typical value

Test voltage between terminations (on all pieces):
1500Vac for 1 s + 2200Vdc for 1 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

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/1 min
Capacitance change |ΔC/C|: ≤5%
Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions

Temperature: +110°C ± 2°C
Test duration: 1000 h
Voltage applied: 1.25 x V_R + 1000Vac 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/1 min
Capacitance change |ΔC/C|: ≤10%
Insulation resistance: ≥50% of initial limit.

Resistance to soldering heat:

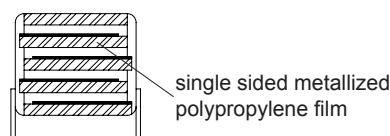
Test conditions

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

Performance

Capacitance change |ΔC/C|: ≤2%

Winding scheme



**X2 CLASS (IEC 60384-14) - MKP Series
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SELF-HEALING PROPERTIES**

APPROVALS

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See www.kemet.com for more information.

Rated Cap.	275 Vac / 560 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number		
	B	H	L	p					
0.010 µF	4.0	9.0	13.0	10.0	0.6	500	R46 KF	2100 - - N0	-
0.015 µF	4.0	9.0	13.0	10.0	0.6	500	R46 KF	2150 - - N0	-
0.022 µF	4.0	9.0	13.0	10.0	0.6	500	R46 KF	2220 - - N0	-
0.033 µF	5.0	11.0	13.0	10.0	0.6	500	R46 KF	2330 - - M1	-
0.047 µF	5.0	11.0	13.0	10.0	0.6	500	R46 KF	2470 - - N0	-
0.068 µF	6.0	12.0	13.0	10.0	0.6	500	R46 KF	2680 - - M1	-
0.10 µF	6.0	12.0	13.0	10.0	0.6	500	R46 KF	3100 - - M1	M
0.010 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2100 - - 01	-
0.015 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2150 - - 01	-
0.022 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2220 - - 01	-
0.033 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2330 - - 01	-
0.047 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2470 - - 01	-
0.068 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2680 - - 01	-
0.10 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	3100 - - M1	-
0.15 µF	6.0	12.0	18.0	15.0	0.6	400	R46 KI	3150 - - M2	-
0.15 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3150 - - L2	-
0.22 µF	7.5	13.5	18.0	15.0	0.6	400	R46 KI	3220 - - M2	-
0.22 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3220 - - L2	-
0.22 µF	6.0	17.5	18.0	15.0	0.6	400	R46 KI	3220 - - 02	-
0.33 µF	8.5	14.5	18.0	15.0	0.6	400	R46 KI	3330 - - N0	-
0.33 µF	10.0	16.0	18.0	15.0	0.8	400	R46 KI	3330 - - M1	-
0.33 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3330 - - N1	M
0.33 µF	7.5	18.5	18.0	15.0	0.8	400	R46 KI	3330 - - 02	-
0.33 µF	13.0	12.0	18.0	15.0	0.8	400	R46 KI	3330 - - 01	-
0.47 µF	7.5	18.5	18.0	15.0	0.8	400	R46 KI	3470 - - 02	M
0.47 µF	10.0	16.0	18.0	15.0	0.8	400	R46 KI	3470 - - N0	M
0.47 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3470 - - M1	-
0.56 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3560 - - N0	-
0.60 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3600 - - N0	-
0.15 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3150 - - 01	-
0.22 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3220 - - M1	-
0.33 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3330 - - N0	-
0.47 µF	7.0	16.0	26.5	22.5	0.8	200	R46 KN	3470 - - N0	-
0.68 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	3680 - - M2	-
1.0 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	4100 - - N2	M
1.0 µF	11.0	20.0	26.5	22.5	0.8	200	R46 KN	4100 - - N1	-
0.47 µF	9.0	17.0	32.0	27.5	0.8	150	R46 KR	3470 - - 01	-
0.68 µF	9.0	17.0	32.0	27.5	0.8	150	R46 KR	3680 - - M1	-
1.0 µF	11.0	20.0	32.0	27.5	0.8	150	R46 KR	4100 - - M1	-
1.5 µF	13.0	22.0	32.0	27.5	0.8	150	R46 KR	4150 - - M1	-
2.2 µF	13.0	25.0	32.0	27.5	0.8	150	R46 KR	4220 - - M2	-
2.2 µF	14.0	28.0	32.0	27.5	0.8	150	R46 KR	4220 - - M1	-
3.3 µF	18.0	33.0	32.0	27.5	0.8	150	R46 KR	4330 - - M2	-
4.7 µF	18.0	33.0	32.0	27.5	0.8	150	R46 KR	4470 - - M2	-
4.7 µF	22.0	37.0	32.0	27.5	0.8	150	R46 KR	4470 - - M1	-
1.5 µF	11.0	22.0	41.5	37.5	1.0	100	R46 KW	4150 - - M1	-
2.2 µF	11.0	22.0	41.5	37.5	1.0	100	R46 KW	4220 - - M2	M
2.2 µF	13.0	24.0	41.5	37.5	1.0	100	R46 KW	4220 - - M1	-
3.3 µF	16.0	28.5	41.5	37.5	1.0	100	R46 KW	4330 - - M1	-
4.7 µF	16.0	28.5	41.5	37.5	1.0	100	R46 KW	4470 - - M2	M
4.7 µF	19.0	32.0	41.5	37.5	1.0	100	R46 KW	4470 - - M1	-
6.8 µF	20.0	40.0	41.5	37.5	1.0	100	R46 KW	4680 - - M2	-
6.8 µF	24.0	44.0	41.5	37.5	1.0	100	R46 KW	4680 - - M1	-
10.0 µF	30.0	45.0	41.5	37.5	1.0	100	R46 KW	5100 - - M1	-

Rated voltage (K=275Vac) _____
 Mechanical version and packaging (Table 1) _____
 Tolerance: K (±10%); M (±20%) _____

	ENEC IEC 60384-14	Class X2	File No.V4413
	UL 1414 (up to 1µF, 85°C; 250Vac)	Across-the-line	File No.E97797
	CSA - C22.2 No.1 (up to 1µF, 85°C; 250Vac)	Across-the-line certified for Canada	File No.E97797
	UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310 Vac)	Electromagnetic Interference Filters certified for Canada	File No.E85238
	GB/T 14472	Class X2	File CQC03001008199 CQC03001008842

Approved according to IEC 60384-14
According to IEC 60065

(**) ENEC mark has replaced all the following European National marks:



Table 1

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		12.70	1	10.0/15.0	DQ
AMMO-PACK		19.05	2	22.5	DQ
REEL Ø500mm		12.70	1	10.0/15.0	CK
REEL Ø500mm		19.05	2	22.5/27.5	CK
Loose, short leads	4 ⁺²				00
Loose, long leads	25 ^{-1/+2}				50
Loose, long leads	30 ⁺⁵				40
Loose, insulated rigid leads	30 ⁺⁵				51
Loose, insulated flexible leads	150 ^{±5}				52

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

For "capacitor connected in serial with main line" (two - phase and three - phase net) application, please read the "SHORT GUIDE TO CHOOSE THE RIGHT FILM CAPACITORS" and contact our Technical Service for choosing the safest solution.

All dimensions are in mm

E12 Series available upon request

**X2 CLASS (IEC 60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES**

APPROVALS

Rated Cap.	275 Vac / 560 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number		
	B	H	L	p					
0.033 µF	4.0	9.0	13.0	10.0	0.6	500	R46 KF	2330 -- P0	-
0.047 µF	4.0	9.0	13.0	10.0	0.6	500	R46 KF	2470 -- P0	-
0.068 µF	5.0	11.0	13.0	10.0	0.6	500	R46 KF	2680 -- P0	-
0.1 µF	5.0	11.0	13.0	10.0	0.6	500	R46 KF	3100 -- P1	M
0.1 µF	6.0	12.0	13.0	10.0	0.6	500	R46 KF	3100 -- P0	-
0.15 µF	6.0	12.0	13.0	10.0	0.6	500	R46 KF	3150 -- P0	M
0.15 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	3150 -- P0	-
0.22 µF	6.0	12.0	18.0	15.0	0.6	400	R46 KI	3220 -- P0	-
0.33 µF	7.5	13.5	18.0	15.0	0.6	400	R46 KI	3330 -- P0	-
0.33 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3330 -- P1	M
0.33 µF	6.0	17.5	18.0	15.0	0.6	400	R46 KI	3330 -- P2	-
0.47 µF	8.5	14.5	18.0	15.0	0.6	400	R46 KI	3470 -- P0	-
0.47 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3470 -- P1	M
0.47 µF	6.0	17.5	18.0	15.0	0.6	400	R46 KI	3470 -- P2	M
0.47 µF	7.5	18.5	18.0	15.0	0.8	400	R46 KI	3470 -- P3	-
0.68 µF	10.0	16.0	18.0	15.0	0.8	400	R46 KI	3680 -- P1	M
0.68 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3680 -- P0	-
0.82 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3820 -- P0	M
0.47 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3470 -- P1	-
0.56 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3560 -- P1	M
0.56 µF	7.0	16.0	26.5	22.5	0.8	200	R46 KN	3560 -- P0	-
0.68 µF	7.0	16.0	26.5	22.5	0.8	200	R46 KN	3680 -- P0	-
1.0 µF	8.5	17.0	26.5	22.5	0.8	200	R46 KN	4100 -- P1	M
1.0 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	4100 -- P0	-
1.5 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	4150 -- P1	M
1.5 µF	11.0	20.0	26.5	22.5	0.8	200	R46 KN	4150 -- P0	-
2.2 µF	13.0	22.0	26.5	22.5	0.8	200	R46 KN	4220 -- P0	M
1.0 µF	9.0	17.0	32.0	27.5	0.8	150	R46 KR	4100 -- P0	-
1.5 µF	11.0	20.0	32.0	27.5	0.8	150	R46 KR	4150 -- P0	-
2.2 µF	13.0	22.0	32.0	27.5	0.8	150	R46 KR	4220 -- P0	-
3.3 µF	14.0	28.0	32.0	27.5	0.8	150	R46 KR	4330 -- P0	-
4.7 µF	14.0	28.0	32.0	27.5	0.8	150	R46 KR	4470 -- P1	M
4.7 µF	18.0	33.0	32.0	27.5	0.8	150	R46 KR	4470 -- P0	-
6.8 µF	22.0	37.0	32.0	27.5	0.8	150	R46 KR	4680 -- P0	-
2.2 µF	11.0	22.0	41.5	37.5	1.0	100	R46 KW	4220 -- P0	-
3.3 µF	13.0	24.0	41.5	37.5	1.0	100	R46 KW	4330 -- P0	-
4.7 µF	16.0	28.5	41.5	37.5	1.0	100	R46 KW	4470 -- P0	-
6.8 µF	19.0	32.0	41.5	37.5	1.0	100	R46 KW	4680 -- P0	-
10.0 µF	20.0	40.0	41.5	37.5	1.0	100	R46 KW	5100 -- P0	-

Rated voltage (K=275Vac)
Mechanical version and packaging (Table 1)
Tolerance: K (±10%); M (±20%)

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	UL 1414 (up to 1µF, 85°C; 250Vac)	Across-the-line	File No.E97797
	CSA - C22.2 No.1 (up to 1µF, 85°C; 250Vac)	Across-the-line certified for Canada	File No.E97797
	UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310 Vac)	Electromagnetic Interference Filters certified for Canada	File No.E85238
	GB/T 14472	Class X2	File CQC03001008199 CQC03001008842

Approved according to IEC 60384-14
According to IEC 60065

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National marks:



Table 1

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		12.70	1	10.0/15.0	DQ
AMMO-PACK		19.05	2	22.5	DQ
REEL Ø500mm		12.70	1	10.0/15.0	CK
REEL Ø500mm		19.05	2	22.5/27.5	CK
Loose, short leads	4 ⁺²				00
Loose, long leads	25 ^{-1/+2}				50
Loose, long leads	30 ⁺⁵				40
Loose, insulated rigid leads	30 ⁺⁵				51
Loose, insulated flexible leads	150 ^{±5}				52

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

All dimensions are in mm

E12 Series available upon request

For “capacitor connected in serial with main line” (two - phase and three - phase net) application, please read the “SHORT GUIDE TO CHOOSE THE RIGHT FILM CAPACITORS” and contact our Technical Service for choosing the safest solution.

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METALLIZED POLYPROPYLENE FILM CAPACITOR
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Rated Cap.	300 Vac / 630 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number			
	B	H	L	p						
0.010 µF	4.0	9.0	13.0	10.0	0.6	500	R46 3F	2100 -- N0	-	
0.015 µF	4.0	9.0	13.0	10.0	0.6	500	R46 3F	2150 -- N0	-	
0.022 µF	4.0	9.0	13.0	10.0	0.6	500	R46 3F	2220 -- N0	-	
0.033 µF	5.0	11.0	13.0	10.0	0.6	500	R46 3F	2330 -- M1	-	
0.047 µF	5.0	11.0	13.0	10.0	0.6	500	R46 3F	2470 -- N0	-	
0.068 µF	6.0	12.0	13.0	10.0	0.6	500	R46 3F	2680 -- M1	-	
0.10 µF	6.0	12.0	13.0	10.0	0.6	500	R46 3F	3100 -- M1	M	
0.010 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2100 -- 01	-	
0.015 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2150 -- 01	-	
0.022 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2220 -- 01	-	
0.033 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2330 -- 01	-	
0.047 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2470 -- 01	-	
0.068 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	2680 -- 01	-	
0.10 µF	5.0	11.0	18.0	15.0	0.6	400	R46 3I	3100 -- M1	-	
0.15 µF	6.0	12.0	18.0	15.0	0.6	400	R46 3I	3150 -- M2	-	
0.15 µF	9.0	12.5	18.0	15.0	0.6	400	R46 3I	3150 -- L2	-	
0.22 µF	7.5	13.5	18.0	15.0	0.6	400	R46 3I	3220 -- M2	-	
0.22 µF	9.0	12.5	18.0	15.0	0.6	400	R46 3I	3220 -- L2	-	
0.22 µF	6.0	17.5	18.0	15.0	0.6	400	R46 3I	3220 -- 02	-	
0.33 µF	8.5	14.5	18.0	15.0	0.6	400	R46 3I	3330 -- N0	-	
0.33 µF	10.0	16.0	18.0	15.0	0.8	400	R46 3I	3330 -- M1	-	
0.33 µF	7.5	18.5	18.0	15.0	0.8	400	R46 3I	3330 -- 02	-	
0.33 µF	13.0	12.0	18.0	15.0	0.8	400	R46 3I	3330 -- 01	-	
0.47 µF	10.0	16.0	18.0	15.0	0.8	400	R46 3I	3470 -- N0	M	
0.47 µF	11.0	19.0	18.0	15.0	0.8	400	R46 3I	3470 -- M1	-	
0.56 µF	11.0	19.0	18.0	15.0	0.8	400	R46 3I	3560 -- N0	-	
0.60 µF	11.0	19.0	18.0	15.0	0.8	400	R46 3I	3600 -- N0	-	
0.15 µF	6.0	15.0	26.5	22.5	0.8	200	R46 3N	3150 -- 01	-	
0.22 µF	6.0	15.0	26.5	22.5	0.8	200	R46 3N	3220 -- M1	-	
0.33 µF	6.0	15.0	26.5	22.5	0.8	200	R46 3N	3330 -- N0	-	
0.47 µF	7.0	16.0	26.5	22.5	0.8	200	R46 3N	3470 -- N0	-	
0.68 µF	10.0	18.5	26.5	22.5	0.8	200	R46 3N	3680 -- M2	-	
1.0 µF	10.0	18.5	26.5	22.5	0.8	200	R46 3N	4100 -- N2	M	
1.0 µF	11.0	20.0	26.5	22.5	0.8	200	R46 3N	4100 -- N1	-	
0.47 µF	9.0	17.0	32.0	27.5	0.8	150	R46 3R	3470 -- 01	-	
0.68 µF	9.0	17.0	32.0	27.5	0.8	150	R46 3R	3680 -- M1	-	
1.0 µF	11.0	20.0	32.0	27.5	0.8	150	R46 3R	4100 -- M1	-	
1.5 µF	13.0	22.0	32.0	27.5	0.8	150	R46 3R	4150 -- M1	-	
2.2 µF	13.0	25.0	32.0	27.5	0.8	150	R46 3R	4220 -- M2	-	
2.2 µF	14.0	28.0	32.0	27.5	0.8	150	R46 3R	4220 -- M1	-	
3.3 µF	18.0	33.0	32.0	27.5	0.8	150	R46 3R	4330 -- M2	-	
4.7 µF	18.0	33.0	32.0	27.5	0.8	150	R46 3R	4470 -- M2	-	
4.7 µF	22.0	37.0	32.0	27.5	0.8	150	R46 3R	4470 -- M1	-	
1.5 µF	11.0	22.0	41.5	37.5	1.0	100	R46 3W	4150 -- M1	-	
2.2 µF	11.0	22.0	41.5	37.5	1.0	100	R46 3W	4220 -- M2	M	
2.2 µF	13.0	24.0	41.5	37.5	1.0	100	R46 3W	4220 -- M1	-	
3.3 µF	16.0	28.5	41.5	37.5	1.0	100	R46 3W	4330 -- M1	-	
4.7 µF	16.0	28.5	41.5	37.5	1.0	100	R46 3W	4470 -- M2	M	
4.7 µF	19.0	32.0	41.5	37.5	1.0	100	R46 3W	4470 -- M1	-	
6.8 µF	20.0	40.0	41.5	37.5	1.0	100	R46 3W	4680 -- M2	-	
6.8 µF	24.0	44.0	41.5	37.5	1.0	100	R46 3W	4680 -- M1	-	
10.0 µF	30.0	45.0	41.5	37.5	1.0	100	R46 3W	5100 -- M1	-	

Rated voltage (3=300Vac) _____
 Mechanical version and packaging (Table 1) _____
 Tolerance: K (±10%); M (±20%) _____

All dimensions are in mm
 E12 Series available upon request

APPROVALS

	ENEC IEC 60384-14	Class X2	File No.V4413
	UL 1414 (up to 1µF, 85°C; 250Vac)	Across-the-line	File No.E97797
	CSA - C22.2 No.1 (up to 1µF, 85°C; 250Vac)	Across-the-line certified for Canada	File No.E97797
	UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310 Vac)	Electromagnetic Interference Filters certified for Canada	File No.E85238
	GB/T 14472	Class X2	FileCQC03001008199 CQC03001008842

Approved according to IEC 60384-14
 According to IEC 60065

Not for use in series with the mains.
 See www.kemet.com for more information.

(**) ENEC mark has replaced all the following European National marks:

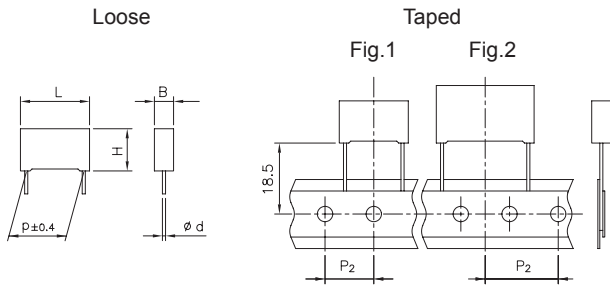


Table 1

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		12.70	1	10.0/15.0	DQ
AMMO-PACK		19.05	2	22.5	DQ
REEL Ø500mm		12.70	1	10.0/15.0	CK
REEL Ø500mm		19.05	2	22.5/27.5	CK
Loose, short leads	4 ⁺²				00
Loose, long leads	25 ^{-1/+2}				50
Loose, long leads	30 ⁺⁵				40
Loose, insulated rigid leads	30 ⁺⁵				51
Loose, insulated flexible leads	150 ^{±5}				52

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

For "capacitor connected in serial with main line" (two - phase and three - phase net) application, please read the "SHORT GUIDE TO CHOOSE THE RIGHT FILM CAPACITORS" and contact our Technical Service for choosing the safest solution.



X2 CLASS (IEC 60384-14) - MKP METALLIZED POLYPROPYLENE FILM CAPACITOR SELF-HEALING PROPERTIES

Typical applications: interference suppression and «across-the-line» applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

PRODUCT CODE: **R46**

Not for use in series with the mains.
See www.kemet.com for more information.

NEW 125°C

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

*See size table.
All dimensions are in mm.

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, rated voltage, capacitor class, dielectric code, climatic category, passive flammability category, manufacturing date code, approvals, manufacturing plant.
- Climatic category:** 40/125/56 IEC 60068-1
- Operating temperature range:** -40 to +125°C
- Related documents:** IEC 60384-14; EN 60384-14

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 275 Vac (50/60Hz) / 560 Vdc
Capacitance range: 0.01µF to 1µF

TEST METHOD AND PERFORMANCE

Endurance:

Test conditions

Temperature: +125°C±2°C
Test duration: 1000 h
Voltage applied: 1.25 x V_R +1000Vac 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/1 min
Capacitance change |ΔC/C|: ≤ 10%
Insulation resistance: ≥ 50% of initial limit.

APPROVALS

 	 ENEC IEC 60384-14 (**)	Class X2	File No.CA08.00063
	UL 1414 (up to 1µF, 85°C; 250Vac)	Across-the-line	File No.E97797
	CSA - C22.2 No.1 (up to 1µF, 85°C; 250Vac)	Across-the-line certified for Canada	File No.E97797
	UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310 Vac)	Electromagnetic Interference Filters certified for Canada	File No.E85238

Approved according to IEC 60384-14
According to IEC 60065

(**) ENEC mark has replaced all the following European National marks:



Rated Cap.	275 Vac / 560 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number
	B	H	L	p			
0.010 µF	5.0	11.0	13.0	10.0	0.6	500	R46 K F 2100 -- H1 -
0.015 µF	5.0	11.0	13.0	10.0	0.6	500	R46 K F 2150 -- H1 -
0.022 µF	5.0	11.0	13.0	10.0	0.6	500	R46 K F 2220 -- H1 -
0.033 µF	5.0	11.0	13.0	10.0	0.6	500	R46 K F 2330 -- H1 -
0.047 µF	6.0	12.0	13.0	10.0	0.6	500	R46 K F 2470 -- H1 -
0.068 µF	6.0	12.0	13.0	10.0	0.6	500	R46 K F 2680 -- H1 M
0.010 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2100 -- H1 -
0.015 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2150 -- H1 -
0.022 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2220 -- H1 -
0.033 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2330 -- H1 -
0.047 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2470 -- H1 -
0.068 µF	5.0	11.0	18.0	15.0	0.6	400	R46 K I 2680 -- H1 -
0.10 µF	6.0	12.0	18.0	15.0	0.6	400	R46 K I 3100 -- H1 -
0.15 µF	6.0	17.5	18.0	15.0	0.6	400	R46 K I 3150 -- H2 -
0.15 µF	9.0	12.5	18.0	15.0	0.6	400	R46 K I 3150 -- H3 -
0.15 µF	7.5	13.5	18.0	15.0	0.6	400	R46 K I 3150 -- H1 -
0.22 µF	8.5	14.5	18.0	15.0	0.6	400	R46 K I 3220 -- H1 -
0.22 µF	6.0	17.5	18.0	15.0	0.6	400	R46 K I 3220 -- H2 M
0.22 µF	9.0	12.5	18.0	15.0	0.6	400	R46 K I 3220 -- H3 M
0.22 µF	7.5	18.5	18.0	15.0	0.8	400	R46 K I 3220 -- H4 -
0.33 µF	10.0	16.0	18.0	15.0	0.8	400	R46 K I 3330 -- H1 M
0.33 µF	7.5	18.5	18.0	15.0	0.8	400	R46 K I 3330 -- H2 M
0.33 µF	13.0	12.0	18.0	15.0	0.8	400	R46 K I 3330 -- H3 M
0.47 µF	11.0	19.0	18.0	15.0	0.8	400	R46 K I 3470 -- H1 M
0.15 µF	6.0	15.0	26.5	22.5	0.8	200	R46 K N 3150 -- H1 -
0.22 µF	6.0	15.0	26.5	22.5	0.8	200	R46 K N 3220 -- H1 -
0.33 µF	7.0	16.0	26.5	22.5	0.8	200	R46 K N 3330 -- H1 -
0.47 µF	10.0	18.5	26.5	22.5	0.8	200	R46 K N 3470 -- H1 -
0.68 µF	11.0	20.0	26.5	22.5	0.8	200	R46 K N 3680 -- H1 -
1.0 µF	13.0	22.0	26.5	22.5	0.8	200	R46 K N 4100 -- H1 -

Rated voltage (K=275Vac) _____
Mechanical version and packaging (Table 1) _____
Tolerance: K (±10%); M (±20%) _____

300Vac available upon request
E12 Series available upon request
All dimensions are in mm

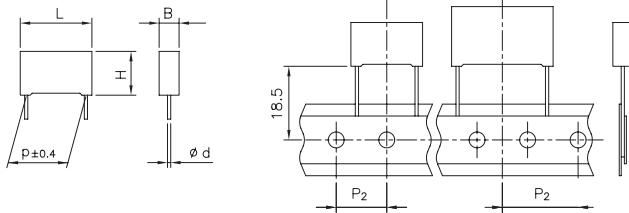
For "capacitor connected in serial with main line" (two - phase and three - phase net) application, please read the "SHORT GUIDE TO CHOOSE THE RIGHT FILM CAPACITORS" and contact our Technical Service for choosing the safest solution.

X2 CLASS (IEC 60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES

Loose

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	1.0

*See size table.

All dimensions are in mm.

PRODUCT CODE: **R46**

Not for new design.

Not for use in series with the mains.
See www.kemet.com for more information.

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

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, rated voltage, capacitor class, dielectric code, climatic category, passive flammability category, manufacturing date code, approvals, manufacturing plant.

Climatic category: 40/110/56 IEC 60068-1

Operating temperature range: -40 to +110°C

Related documents: IEC 60384-14, EN 60384-14.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 275Vac (50/60Hz) / 560 Vdc

Capacitance range: 0.022µF to 10µF

Capacitance values: E6 series (IEC 60063 Norm).

Capacitance tolerances (measured at 1 kHz):
±10% (K); ±20% (M).

tolerance ±5% (J) available upon request

Dissipation factor (DF):

tgδ 10⁻⁴ at +25°C ±5°C: ≤15 (8)* at 1kHz

* Typical value

Insulation resistance:

Test conditions

Temperature: +25°C±5°C

Voltage charge time: 1 min

Voltage charge: 100 Vdc

Performance

≥1x10⁵ MΩ (5x10⁵ MΩ)* for C≤0.33µF

≥30000 s (150000 s)* for C>0.33µF

* Typical value

Test voltage between terminations (on all pieces):

1500Vac for 1 s + 2200Vdc for 1 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

Test conditions 3rd

Temperature: +40°C ± 2°C

Relative humidity (RH): 93% ±2%

Test duration: 500 hours

Voltage value: 230 Vac, 50 Hz

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/1 min

Capacitance change |ΔC/C|: ≤5%

Insulation resistance: ≥50% of initial limit.

Endurance:

Test conditions

Temperature: +110°C ± 2°C

Test duration: 1000 h

Voltage applied: 1.25 x V_R + 1000Vac 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or flashover at 4.3 x V_R (d.c.)/1 min

Capacitance change |ΔC/C|: ≤10%

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%

X2 CLASS (IEC60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES

APPROVALS

Not for new design.

Rated Cap. (*)	275 Vac / 560 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number		
	B	H	L	p					
0.010 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2100 -- S0	-
0.015 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2150 -- S0	-
0.022 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2220 -- S0	-
0.033 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2330 -- S0	-
0.047 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2470 -- S1	-
0.068 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	2680 -- S0	-
0.10 µF	5.0	11.0	18.0	15.0	0.6	400	R46 KI	3100 -- S1	M
0.10 µF	6.0	12.0	18.0	15.0	0.6	400	R46 KI	3100 -- S0	-
0.15 µF	6.0	12.0	18.0	15.0	0.6	400	R46 KI	3150 -- S1	M
0.15 µF	7.5	13.5	18.0	15.0	0.6	400	R46 KI	3150 -- S0	-
0.15 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3150 -- S3	-
0.22 µF	7.5	13.5	18.0	15.0	0.6	400	R46 KI	3220 -- S1	M
0.22 µF	8.5	14.5	18.0	15.0	0.6	400	R46 KI	3220 -- S0	-
0.22 µF	6.0	17.5	18.0	15.0	0.6	400	R46 KI	3220 -- S2	-
0.22 µF	9.0	12.5	18.0	15.0	0.6	400	R46 KI	3220 -- S3	-
0.33 µF	13.0	12.0	18.0	15.0	0.8	400	R46 KI	3330 -- S1	-
0.33 µF	8.5	14.5	18.0	15.0	0.8	400	R46 KI	3330 -- S3	M
0.33 µF	10.0	16.0	18.0	15.0	0.8	400	R46 KI	3330 -- S0	-
0.33 µF	7.5	18.5	18.0	15.0	0.8	400	R46 KI	3330 -- S2	-
0.47 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3470 -- S0	-
0.47 µF	10.0	16.0	18.0	15.0	0.8	400	R46 KI	3470 -- S1	M
0.56 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3560 -- S0	-
0.68 µF	11.0	19.0	18.0	15.0	0.8	400	R46 KI	3680 -- S0	M
0.22 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3220 -- S0	-
0.33 µF	6.0	15.0	26.5	22.5	0.8	200	R46 KN	3330 -- S1	M
0.33 µF	7.0	16.0	26.5	22.5	0.8	200	R46 KN	3330 -- S0	-
0.47 µF	7.0	16.0	26.5	22.5	0.8	200	R46 KN	3470 -- S1	M
0.47 µF	8.5	17.0	26.5	22.5	0.8	200	R46 KN	3470 -- S0	-
0.68 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	3680 -- S0	-
1.0 µF	10.0	18.5	26.5	22.5	0.8	200	R46 KN	4100 -- S2	M
1.0 µF	11.0	20.0	26.5	22.5	0.8	200	R46 KN	4100 -- S1	-
1.2 µF	13.0	22.0	26.5	22.5	0.8	200	R46 KN	4120 -- S0	-
0.47 µF	9.0	17.0	32.0	27.5	0.8	150	R46 KR	3470 -- S0	-
0.68 µF	9.0	17.0	32.0	27.5	0.8	150	R46 KR	3680 -- S1	-
1.0 µF	11.0	20.0	32.0	27.5	0.8	150	R46 KR	4100 -- S1	-
1.5 µF	13.0	22.0	32.0	27.5	0.8	150	R46 KR	4150 -- S1	-
2.2 µF	13.0	25.0	32.0	27.5	0.8	150	R46 KR	4220 -- S2	-
3.3 µF	18.0	33.0	32.0	27.5	0.8	150	R46 KR	4330 -- S2	-
4.7 µF	18.0	33.0	32.0	27.5	0.8	150	R46 KR	4470 -- S2	-
1.5 µF	11.0	22.0	41.5	37.5	1.0	100	R46 KW	4150 -- S1	-
2.2 µF	11.0	22.0	41.5	37.5	1.0	100	R46 KW	4220 -- S2	M
2.2 µF	13.0	24.0	41.5	37.5	1.0	100	R46 KW	4220 -- S1	-
3.3 µF	16.0	28.5	41.5	37.5	1.0	100	R46 KW	4330 -- S1	-
4.7 µF	16.0	28.5	41.5	37.5	1.0	100	R46 KW	4470 -- S2	M
4.7 µF	19.0	32.0	41.5	37.5	1.0	100	R46 KW	4470 -- S1	-
6.8 µF	20.0	40.0	41.5	37.5	1.0	100	R46 KW	4680 -- S2	-
10.0 µF	30.0	45.0	41.5	37.5	1.0	100	R46 KW	5100 -- S1	-

	ENEC IEC 60384-14	Class X2	File No.V4413
	UL 1414 (up to 1µF, 85°C; 250Vac)	Across-the-line	File No.E97797
	CSA - C22.2 No.1 (up to 1µF, 85°C; 250Vac)	Across-the-line certified for Canada	File No.E97797
	UL 1283 (310 Vac)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310 Vac)	Electromagnetic Interference Filters certified for Canada	File No.E85238
	GB/T 14472	Class X2	File CQC03001008199 CQC03001008842

Approved according to IEC 60384-14
According to IEC 60065
Not for use in series with the mains.
See www.kemet.com for more information.

(**) ENEC mark has replaced all the following European
National marks:



Table 1

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
AMMO-PACK		12.70	1	10.0/15.0	DQ
AMMO-PACK		19.05	2	22.5	DQ
REEL Ø500mm		12.70	1	10.0/15.0	CK
REEL Ø500mm		19.05	2	22.5/27.5	CK
Loose, short leads	4 ⁺²				00
Loose, long leads	25 ^{-1/+2}				50
Loose, long leads	30 ⁺⁵				40
Loose, insulated rigid leads	30 ⁺⁵				51
Loose, insulated flexible leads	150 ⁺⁵				52

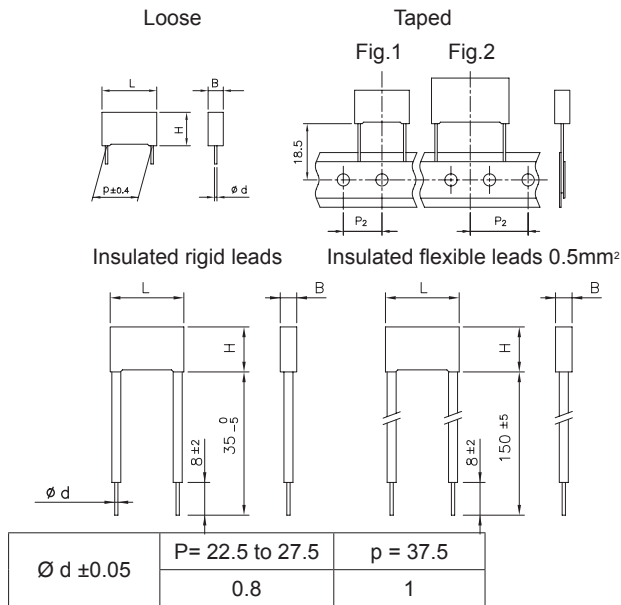
Note: Ammo-pack is the preferred packaging for taped version.

Rated voltage (K=275Vac) _____
Mechanical version and packaging (Table 1) _____
Tolerance: K (±10%); M (±20%) _____

300Vac Available upon request

E12 Series available upon request

All dimensions are in mm



All dimensions are in mm.

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, rated voltage, capacitor class, dielectric code, climatic category, passive flammability category, manufacturing date code, approvals, manufacturing plant.

Climatic category: 40/110/56 IEC 60068-1

Operating temperature range: -40 to +110°C

Related documents: IEC 60384-14, EN 60384-14.

ELECTRICAL CHARACTERISTICS

Rated voltage (V_R): 275Vac (50/60Hz) / 560 Vdc
300Vac (50/60Hz) / 630 Vdc

Capacitance range: 0.22 μ F to 10 μ F

Capacitance values: E6 series (IEC 60063 Norm).

Capacitance tolerances (measured at 1 kHz):
 $\pm 10\%$ (K); $\pm 20\%$ (M).

Dissipation factor (DF):

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

Insulation resistance:

Test conditions

Temperature: +25°C $\pm 5^\circ\text{C}$

Voltage charge time: 1 min

Voltage charge: 100 Vdc

Performance

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

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

* Typical value

Test voltage between terminations (on all pieces):

Capacitors with discharge resistor
X2 CLASS (IEC 60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES

Typical applications: interference suppression and «across-the-line» applications. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

PRODUCT CODE: **R46**

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

TEST METHOD AND PERFORMANCE

Damp heat, steady state:

Test conditions 1st

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

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

Test duration: 56 days

Performance

Dielectric strength: no dielectric breakdown or flashover at $4.3 \times V_R$ (d.c.)/1 min

Capacitance change $|\Delta C/C|$: $\leq 5\%$

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

Endurance:

Test conditions

Temperature: +110°C $\pm 2^\circ\text{C}$

Test duration: 1000 h

Voltage applied: $1.25 \times V_R + 1000\text{Vac}$ 0.1 s/h

Performance

Dielectric strength: no dielectric breakdown or flashover at $4.3 \times V_R$ (d.c.)/1 min

Capacitance change $|\Delta C/C|$: $\leq 10\%$

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 ± 1 s

Performance

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

APPROVALS

	ENEC IEC 60384-14	Class X2	File No.V4413
	UL 1283 (310Vac-105°C)	Electromagnetic Interference Filters	File No.E85238
	CSA - C22.2 No.8 (310Vac-105°C)	Electromagnetic Interference Filters certified for Canada	File No.E85238

Approved according to IEC 60384-14
According to IEC 60065.

Not for use in series with the mains.
See www.kemet.com for more information.

Capacitors with discharge resistor
X2 CLASS (IEC 60384-14) - MKP Series
METALLIZED POLYPROPYLENE FILM CAPACITOR
SELF-HEALING PROPERTIES

PRODUCT CODE: **R46**

Not for use in series with the mains.

See www.kemet.com for more information.

Rated Cap. (*)	275 Vac / 560 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number
	B	H	L	p			
0.22 µF	7.0	16.0	26.5	22.5	0.8	200	R46KN 3220 -- 01 - x
0.33 µF	8.5	17.0	26.5	22.5	0.8	200	R46KN 3330 -- 01 - x
0.47 µF	10.0	18.5	26.5	22.5	0.8	200	R46KN 3470 -- 01 - x
0.68 µF	11.0	20.0	26.5	22.5	0.8	200	R46KN 3680 -- 01 - x
0.47 µF	11.0	20.0	32.0	27.5	0.8	150	R46KR 3470 -- 01 - x
0.68 µF	11.0	20.0	32.0	27.5	0.8	150	R46KR 3680 -- M1 - x
1.0 µF	13.0	22.0	32.0	27.5	0.8	150	R46KR 4100 -- M1 - x
1.5 µF	13.0	22.0	32.0	27.5	0.8	150	R46KR 4150 -- M1 - x
2.2 µF	14.0	28.0	32.0	27.5	0.8	150	R46KR 4220 -- M1 - x
3.3 µF	18.0	33.0	32.0	27.5	0.8	150	R46KR 4330 -- M2 - x
4.7 µF	22.0	37.0	32.0	27.5	0.8	150	R46KR 4470 -- M1 - x
1.5 µF	11.0	22.0	41.5	37.5	1.0	100	R46KW 4150 -- M1 - x
2.2 µF	13.0	24.0	41.5	37.5	1.0	100	R46KW 4220 -- M1 - x
3.3 µF	16.0	28.5	41.5	37.5	1.0	100	R46KW 4330 -- M1 - x
4.7 µF	19.0	32.0	41.5	37.5	1.0	100	R46KW 4470 -- M1 - x
6.8 µF	20.0	40.0	41.5	37.5	1.0	100	R46KW 4680 -- M2 - x
10.0 µF	24.0	44.0	41.5	37.5	1.0	100	R46KW 5100 -- M1 - x

Rated voltage (K=275Vac) _____
 Mechanical version and packaging (Table 1) _____
 Tolerance: K (±10%); M (±20%) _____
 Value of discharge resistor (Table 2) _____

Rated Cap. (*)	300 Vac / 630 Vdc Std dimensions				Ø d	Max dv/dt at 390Vdc (V/µs)	Part Number
	B	H	L	p			
0.22 µF	7.0	16.0	26.5	22.5	0.8	200	R463N 3220 -- 01 - x
0.33 µF	8.5	17.0	26.5	22.5	0.8	200	R463N 3330 -- 01 - x
0.47 µF	10.0	18.5	26.5	22.5	0.8	200	R463N 3470 -- 01 - x
0.68 µF	11.0	20.0	26.5	22.5	0.8	200	R463N 3680 -- 01 - x
0.47 µF	11.0	20.0	32.0	27.5	0.8	150	R463R 3470 -- 01 - x
0.68 µF	11.0	20.0	32.0	27.5	0.8	150	R463R 3680 -- M1 - x
1.0 µF	13.0	22.0	32.0	27.5	0.8	150	R463R 4100 -- M1 - x
1.5 µF	13.0	22.0	32.0	27.5	0.8	150	R463R 4150 -- M1 - x
2.2 µF	14.0	28.0	32.0	27.5	0.8	150	R463R 4220 -- M1 - x
3.3 µF	18.0	33.0	32.0	27.5	0.8	150	R463R 4330 -- M2 - x
4.7 µF	22.0	37.0	32.0	27.5	0.8	150	R463R 4470 -- M1 - x
1.5 µF	11.0	22.0	41.5	37.5	1.0	100	R463W 4150 -- M1 - x
2.2 µF	13.0	24.0	41.5	37.5	1.0	100	R463W 4220 -- M1 - x
3.3 µF	16.0	28.5	41.5	37.5	1.0	100	R463W 4330 -- M1 - x
4.7 µF	19.0	32.0	41.5	37.5	1.0	100	R463W 4470 -- M1 - x
6.8 µF	20.0	40.0	41.5	37.5	1.0	100	R463W 4680 -- M2 - x
10.0 µF	24.0	44.0	41.5	37.5	1.0	100	R463W 5100 -- M1 - x

Rated voltage (3=300Vac) _____
 Mechanical version and packaging (Table 1) _____
 Tolerance: K (±10%); M (±20%) _____
 Value of discharge resistor (Table 2) _____

Table 1

Standard packaging style	Lead length (mm)	Taping style			Ordering code (Digit 10 to 11)
		P ₂ (mm)	Fig. (No.)	Pitch (mm)	
REEL Ø500mm		19.05	2	22.5/27.5	CK
Loose, short leads	4 ⁺²				00
Loose, long leads	25 ^{-1/+2}				50
Loose, long leads	30 ⁺⁵				40
Loose, insulated rigid leads	30 ⁺⁵				51
Loose, insulated flexible leads	150 ^{±5}				52

PRODUCT CODE SYSTEM

The part number, comprising 15 digits, is formed as follows:



- Digit 1 to 3 Series code.
- Digit 4 a.c. rated voltage:
K = 275Vac; 3 = 300Vac
- Digit 5 Pitch:
N = 22.5; R = 27.5; W = 37.5 mm
- 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:
K=±10%; M=±20%
- Digit 15 Value of the discharge resistor (tolerance±10%) according to the following table*:

Table 2

R	code (x)
470 kΩ	E
680 kΩ	F
1 MΩ	G
1.2 MΩ	L
1.5 MΩ	N
2.2 MΩ	P
3.3 MΩ	Q
4.7 MΩ	S
6.8 MΩ	T
10 MΩ	V

*Other resistors are available upon request.

All dimensions are in mm

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute – and we specifically disclaim – any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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