

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%)

	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.

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.

Mouser Electronics

Authorized Distributor

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Kemet:

R463R422000M1K	R463W447000M1K	R46KF310000P1M	R46KN3680CKM1K	R46KN3680CKM1M
R46KN3680CKM2J	R46KN3680CKM2K	R46KN3680CKM2M	R46KN3680DQH1R	R46KN3680DQM1K
R46KN3680DQM1M	R46KN3680DQM2K	R46KN3680DQM2M	R46KN3680JBM1K	R46KN3680JBM1M
R46KN3680JBM2K	R46KN3680JBM2M	R46KN3680JBS0M	R46KN3680JEM1M	R46KN3680JEM2K
R46KN3680JHH1K	R46KN3680JHM1K	R46KN3680JHM2K	R46KN3680JHM2M	R46KN3680JLH1R
R46KN3680JLM2R	R46KN3680JPM1M	R46KN3680JPM2K	R46KN3680JPM2M	R46KN3680JUM1M
R46KN382000M1K	R46KN3820JEM1K	R46KN410000H1K	R46KN410000H1M	R46KN410000M1K
R46KN410000M1M	R46KN410000N1K	R46KN410000N1M	R46KN410040M1M	R46KN410040N1M
R46KN410040N2M	R46KN410040Z1M	R46KN410040Z2M	R46KN410045H1M	R46KN410045M1K
R46KN410045M1M	R46KN410045N1K	R46KN410045N1M	R46KN410045N2M	R46KN410050H1K
R46KN410050M1K	R46KN410050M1M	R46KN410050N2M	R46KN410052M1M	R46KN410055H1M
R46KN410055M1K	R46KN410055M1M	R46KN4100CKH1K	R46KN4100CKH1R	R46KN4100CKN1K
R46KN4100DQN1K	R46KN4100DQN2M	R46KN4100JBM1K	R46KN4100JBM1M	R46KN4100JBN1K
R46KN4100JBN1M	R46KN4100JEM1K	R46KN4100JEM1M	R46KN4100JEN2M	R46KN4100JHM1K
R46KN4100JHM1M	R46KN4100JHN2M	R46KN4100JLM1M	R46KN4100JPM1M	R46KN4100JPN1M
R46KN4100JPN2M	R46KN415040P1M	R46KN418040P1M	R46KN422040P0M	R46KR422050M1K
R46KR4150JBM1K	R46KR4100JPM1M	R46KR4100JBM1K	R46KR4220JBM1K	R46KR422000M2M
R46KI3100DQS1M	R46KR415000M1M	R46KF210050N0K	R46KF310050P0K	R46KI3470JBM1K
R46KR368050M1K	R46KR4100ZEM1K	R46KR415050M1K	R46KR422040M2M	R46KR433050M2K
R46KR447050M2K	R46KR410045M1M	R463F3100DQM1M	R463I310000M1K	R463I322000M2K