

Metallized Polypropylene AC Film Capacitors



RoHS
COMPLIANT

GREEN
(5-2008)

HALOGEN
FREE

KEY BENEFITS

- High-performance AC filter
- High peak current capabilities
- Long useful lifetime
- Application temperature up to 105 °C

APPLICATIONS

- AC filtering
- UPS systems
- Renewable energy – grid interface
- Harmonic filter
- Welding equipment

RESOURCES

- Datasheet: MKP1847 AC - <http://www.vishay.com/doc?28172>
- For technical questions contact dc-film@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



FILM CAPACITORS

MKP1847 AC Capacitors

Capacitors - High-Performance AC Filter

FEATURES

Low capacitance decrease over time

REFERENCE STANDARDS

 IEC 61071
 IEC 60068

RATED CAPACITANCE

 1 μ F to 70 μ F

CAPACITANCE TOLERANCE
 $\pm 5\%$ and $\pm 10\%$
MAXIMUM OPERATION TEMPERATURE

105 °C

LIFETIME EXPECTANCY

 Useful life time: > 60,000 h at
 UN. FIT: < 10×10^{-9} /h (10 per 10^9
 component hours) at $0.5 \times U_N$, 40 °C

VOLTAGE RATING

U_N	U_{NDC}	AC VOLTAGE @ 85 °C	AC VOLTAGE @ 105 °C
230 V	450 V	230 V	160 V
250 V	500 V	250 V	175 V
275 V	600 V	275 V	190 V
310 V	630 V	310 V	210 V
350 V	700 V	350 V	240 V
440 V	1000 V	440 V	300 V

RANGE

PITCH (mm)	27.5	37.5	52.5
DIMENSIONS (W X H X L) mm:	(9.0 x 19.0 x 32.0) to (20.0 x 35.0 x 32.0)	(18.5 x 35.5 x 43.0) to (30.0 x 45.0 x 42.0)	(25.0 x 45.0 x 57.5) to (45.0 x 45.0 x 57.5)

PITCH (mm)	C (μ F)																											
	1	1.5	2	2.2	2.7	3	3.3	4	5	6	7	8	9	10	12	15	20	22	25	30	35	40	45	50	55	60	65	70
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