



FILM CAPACITORS

MKP386M Snubber

AC and Pulse Film Capacitors



KEY BENEFITS

- Reduce or eliminate voltage and current spikes
- Reduce EMI by clamping voltage and current ringing
- High pulse strength (dV/dt up to 2500 V/μs)
- Low-inductance construction (low ESL)
- Low ESR

APPLICATIONS

- Photovoltaic inverters
- Wind inverters
- Motor drives
- Frequency converters
- Direct mount on IGBT modules

RESOURCES

- Datasheet: MKP386M Snubber - <http://www.vishay.com/doc?28170>
- For technical questions contact dc-film@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



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





FILM CAPACITORS

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FEATURES

Low inductance construction
Low loss dielectric

REFERENCE STANDARDS

IEC 60384-17

RATED CAPACITANCE

E12 series: 0.047 μ F to 5 μ F

CAPACITANCE TOLERANCE

$\pm 5\%$

RANGE

RATED (DC) VOLTAGE

700 V, 850 V, 1000 V, 1250 V,
1600 V, 2000 V, 2500 V

RATED (AC) VOLTAGE

420 V, 450 V, 425 V, 400 V, 500 V,
550 V, 600 V, 700 V, 800 V

RATED TEMPERATURE

85 °C

MAXIMUM PERMISSIBLE CASE TEMPERATURE

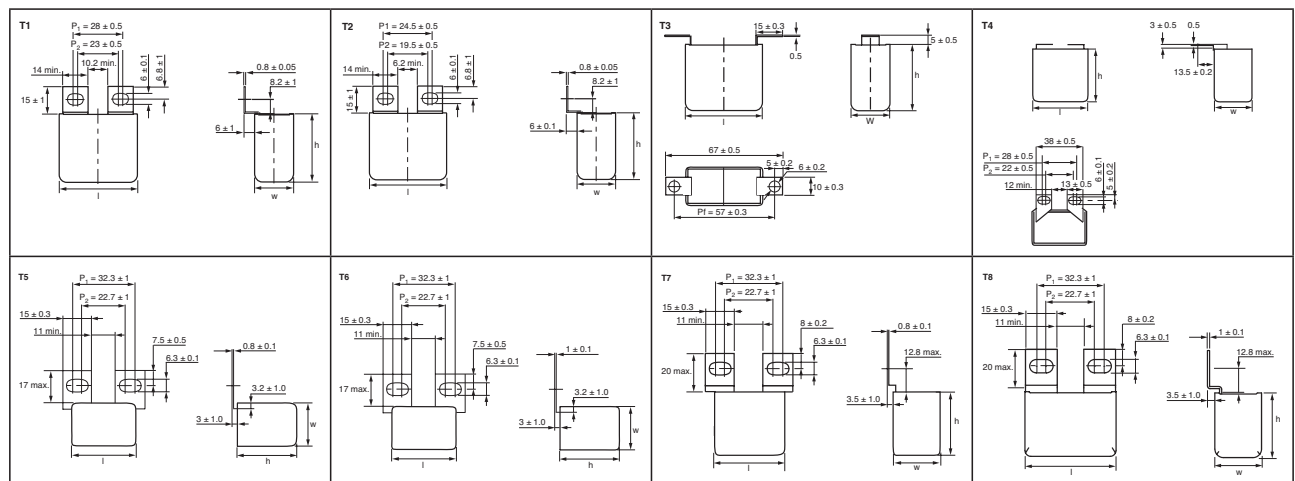
105 °C, observing voltage derating

LIFETIME EXPECTANCY

Operating life > 300 000 h
Failure rate < 5 FIT (40 °C and 0.5 x U_R)

	TERMINAL AVAILABLE	C (μ F)																							
		0.33	0.39	0.47	0.56	0.68	0.82	1	1.2	1.3	1.5	1.8	2	2.2	2.5	2.7	3	3.3	4	4.7	5	6	7	8	10
700 V _{DC}	T1/T2/T4/T6/T8																								
	T3/T5/T7																								
850 V _{DC}	T1/T2/T4/T6/T8																								
	T3/T5/T7																								
1000 V _{DC}	T1/T2/T4/T6/T8																								
	T3/T5/T7																								
1250 V _{DC}	T1/T2/T4/T6/T8																								
	T3/T5/T7																								

	TERMINAL AVAILABLE	C (μ F)																						
		0.047	0.068	0.1	0.12	0.15	0.18	0.22	0.27	0.33	0.39	0.47	0.56	0.68	0.82	1	1.2	1.3	1.5	1.8	2	2.2	2.5	
1600 V _{DC}	T1/T2/T4/T6/T8																							
	T3/T5/T7																							
2000 V _{DC}	T1/T2/T4/T6/T8																							
	T3/T5/T7																							
2500 V _{DC}	T1/T2/T4/T6/T8																							
	T3/T5/T7																							



Capacitors - Snubber Film Capacitors