UVK

125ºC Surface Mount Capacitors



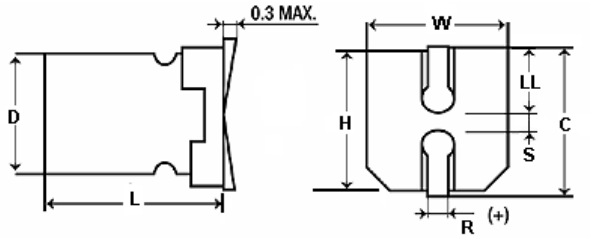
FEATURES	Small size - High Temperature – Lead Free Leads

APPLICATIONS	Bypass – Coupling – Filtering – De-coupling

Operating Temperature Range		**-40°C to +125°C**					
Capacitance Tolerance		**±20% at 120 Hz, 20°C**					
Surge voltage	**WVDC**	**10**	**16**	**25**	**35**	**50**	
	SVDC	13	20	32	44	63	
Dissipation Factor	**WVDC**	**10**	**16**	**25**	**35**	**50**	
	tan δ	.30	.24	.2	.17	.14	
Leakage current		**2 Minutes**					
		.01CV or 3uA,Whichever is greater					
Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**10**	**16**	**25**	**35**	**50**	
	-25°C to +20°C	6	5	4	3	3	
	-40°C to +20°C	12	8	6	4	4	

Load Life	**1000 hours (1500 hours for 8, 10mm) at 125°C with rated WVDC**	
	Capacitance change	≤30% of initial measured value
	Dissipation factor	≤300% of maximum specified value
	Leakage current	≤100% of maximum specified value
Shelf Life	**1000 hours at 85°C with no voltage applied**	
	Capacitance change	≤30% of initial measured value
	Dissipation factor	≤300% of maximum specified value
	Leakage current	≤100% of maximum specified value
Resistance to soldering heat	**Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature**	
	Capacitance change	≤10% of initial measured value
	Dissipation factor	≤100% of maximum specified value
	Leakage current	≤100% of maximum specified value

Ripple Current Multipliers	Frequency (Hz)				
	50	**120**	**300**	**1k**	**10k**
	.85	1	1.17	1.36	1.5



D+0.5	L	W±0.2	H±0.2	C±0.2	R	LL±0.2	S±0.2
6.3	7.7 +/-0.3	6.6	6.6	7.3	0.5~0.8	2.4	2.2
8	10.5 +/-0.5	8.3	8.3	9	0.8~1.1	2.9	3.1
10	10.5 +/-0.5	1.03	10.3	11	0.8~1.1	3.2	4.5

ILLINOIS CAPACITOR

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UVK

+125°C High temperature, 1000 to 1500 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
10	50	106UVK050MEW	23.21	50	6.3x5.8
22	35	226UVK035MEW	12.81	50	6.3x5.8
22	50	226UVK050MEL	10.55	70	6.3x7.7
33	50	336UVK050MEL	7.03	70	6.3x7.7
33	50	336UVK050MFE	7.03	130	8x10.5
47	35	476UVK035MEL	6	70	6.3x7.7
47	50	476UVK050MFE	4.94	130	8x10.5
47	50	476UVK050MGE	4.94	180	10x10.5
68	10	686UVK010MEW	7.31	50	6.3x5.8
100	16	107UVK016MEL	3.98	75	6.3x7.7
100	35	107UVK035MFE	2.82	130	10x10.5
100	50	107UVK050MGE	2.32	180	10x10.5
220	25	227UVK025MFE	1.51	130	8x10.5
220	35	227UVK035MGE	1.28	180	10x10.5
330	10	337UVK010MFE	1.51	130	8x10.5
330	25	337UVK025MGE	1	180	10x10.5
470	10	477UVK010MGE	1.06	180	10x10.5

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