

<b>UVK</b>	125°C SURFACE MOUNT CAPACITORS
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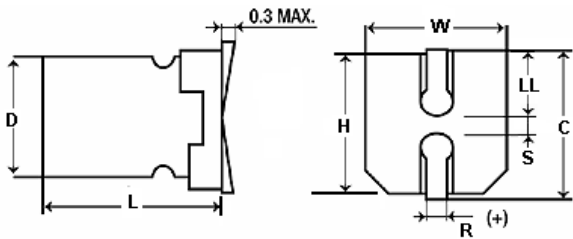
## FEATURES

Small size - High Temperature - Lead Free Leads

## APPLICATIONS

Bypass - Coupling - Filtering - De-coupling

<b>Operating Temperature Range</b>		<b>-40°C to +125°C</b>				
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>				
<b>Surge voltage</b>	<b>WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>
	<b>SVDC</b>	13	20	32	44	63
<b>Dissipation Factor</b>	<b>WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>
	<b>tan δ</b>	.30	.24	.2	.17	.14
<b>Leakage current</b>		<b>2 Minutes</b>				
		.01CV or 3uA, Whichever is greater				
<b>Low temperature stability Impedance ratio (120 Hz)</b>	<b>Rated WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>
	<b>-25°C to +20°C</b>	6	5	4	3	3
	<b>-40°C to +20°C</b>	12	8	6	4	4
<b>Load Life</b>	<b>1000 hours (1500 hours for 8, 10mm) at 125°C with rated WVDC</b>					
	<b>Capacitance change</b>	≤30% of initial measured value				
	<b>Dissipation factor</b>	≤300% of maximum specified value				
	<b>Leakage current</b>	≤100% of maximum specified value				
<b>Shelf Life</b>	<b>1000 hours at 85°C with no voltage applied</b>					
	<b>Capacitance change</b>	≤30% of initial measured value				
	<b>Dissipation factor</b>	≤300% of maximum specified value				
	<b>Leakage current</b>	≤100% of maximum specified value				
<b>Resistance to soldering heat</b>	<b>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</b>					
	<b>Capacitance change</b>	≤10% of initial measured value				
	<b>Dissipation factor</b>	≤100% of maximum specified value				
	<b>Leakage current</b>	≤100% of maximum specified value				
<b>Ripple Current Multipliers</b>	Frequency (Hz)					
	<b>50</b>	<b>120</b>	<b>300</b>	<b>1k</b>	<b>10k</b>	
	.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 +0.1/-0.2	6.6	6.6	7.3	0.5~0.8	2.4	2.2
8	10 +0.1/-0.2	8.3	8.3	9	0.8~1.1	2.9	3.1
10	10 +0.1/-0.2	1.03	10.3	11	0.8~1.1	3.2	4.5



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**North America**  
Tel: 847.675.1760  
sales@illcap.com

**Asia**  
Tel: 852.2793 0931  
sales@illcap.com.hk

# UVK

125°C SURFACE  
MOUNT  
CAPACITORS

Cap (uF)	WVDC	IC PART #	Maximum ESR ( $\Omega$ ) 120 Hz 20°C	Ripple current (mA) 120Hz, 125°C	Dimensions 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	6.00	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	8x10.5
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	1.00	180	10x10.5
470	10	477UVK010MGE	1.06	180	10x10.5



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