

### **OVK Series**

#### **Features**

- 105°C, 5,000 hours assured
- · Ultra low ESR, solid capacitors of SMD type
- · RoHS Compliance



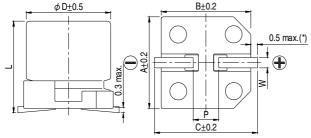
Marking color: Blue

#### Specifications

Items	Performance						
Category Temperature Range	-55°C ~ +105°C						
Capacitance Tolerance	±20% (at 120Hz, 20°C)						
Leakage Current (at 20°C)*	Rated voltage applied, after 2 minutes at 20°C. See Standard Ratings						
Tanδ (at 120Hz, 20°C)	See Standard Ratings	i e					
ESR (at 100k ~ 300k Hz, 20°C)	See Standard Ratings						
		Test Time Capacitance Change Tanō	Within ±20	000 Hrs % of initial value % of specified value			
Endurance		ESR		% of specified value			
		Leakage Current		pecified value			
	* The above specificat hours at 105°C.	ated voltage applied for 5,000					
		Test Time	1,000 Hrs				
		Capacitance Change	Within ±20	% of initial value			
Moisture Resistance		Tanδ	Less than 150	% of specified value			
Moisture Resistance		ESR	Less than 150	% of specified value			
		Leakage Current					
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment*.						
		Capacitance Change	Within ±10				
Resistance to Soldering Heat * (Please refer to page 25 for reflow soldering conditions)		Tanδ	Within specified value				
		ESR	Within specified value				
		Leakage Current	Within specified value				
Ripple Current and	Frequency	v (Hz) 120 ≦ f < 1k	1k ≤ f < 10k	10k ≦ f < 100k	100k ≤ f < 500k		
Frequency Multipliers	Multipli	) (· ·=)	0.3	0.7	1.0		
,	.лапри		0.0				

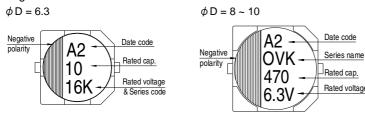
<sup>\*</sup> For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105 °C.

#### Diagram of Dimensions



Lead Sp	pacing and Dia	l	Jnit: mm				
$\phi$ D	L	Α	В	С	W	P ± 0.2	
6.3	5.9 +0.1/-0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
6.3	9.5 ± 0.5	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
8	6.7 ± 0.3	8.3	8.3	9.0	0.7 ~ 1.1	3.1	
8	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1	
10	7.7 ± 0.3	10.3	10.3	11.0	0.7 ~ 1.3	4.7	
10	12.6 +0.1/-0.4	10.3	10.3	11.0	0.7 ~ 1.3	4.7	
(*): For $6.3 \phi$ is $0.4 \text{ max}$ .							

#### Marking





# Organic Conductive Polymer Capacitors

**OVK** 

Standard Ratings

Dimension:  $\phi D \times L(mm)$ 

Ripple Current: mA/rms at 100k Hz, 105°C

Otanuaru IX			0:	<b>-</b> -			TIAVITIS AT TOOK 112, 100 0
Rated Volt. (V)	Surge Voltage (V)	Capacitance (µF)	Size φ D×L(mm)	Tanδ (120Hz, 20°C)	L C (µA)	$\begin{array}{c} \text{E S R} \\ \text{(m}\Omega/\text{at } 100\text{k} \sim 300\text{k Hz, } 20^{\circ}\text{C} \text{ max.)} \end{array}$	Rated R. C. (mA/rms at 100k Hz, 105°C)
		150	6.3 × 5.9	0.12	120	22	2,570
		270	8 × 6.7	0.12	216	22	3,220
4) / (0.0)	4.0	222	6.3 × 5.9	0.12	264	20	2,800
4V (0G)	4.6	330	8 × 6.7	0.12	264	22	3,220
		560	8 × 6.7	0.12	448	18	3,600
		680	10 × 7.7	0.12	544	20	4,130
		100	6.3 × 5.9	0.12	126	22	2,800
		120	6.3 × 5.9	0.12	151	22	2,800
0.01/ (0.1)	7.0	000	6.3 × 5.9	0.12	277	20	2,800
6.3V (0J)	7.2	220	8 × 6.7	0.12	277	22	3,220
		390	8 × 6.7	0.12	491	22	3,220
		470	10 × 7.7	0.12	592	20	4,130
		56	6.3 × 5.9	0.12	112	27	2,300
		68	6.3 × 5.9	0.12	136	27	2,300
		120	6.3 × 5.9	0.12	240	27	2,300
10V (1A)	12.0	150	8 × 6.7	0.12	300	30	2,760
			10 × 7.7	0.12	300	30	3,020
		270	8 × 6.7	0.12	540	22	3,200
		330	10 × 7.7	0.12	660	24	3,770
		39	6.3 × 5.9	0.12	125	30	2,200
	18.0	68	6.3 × 5.9	0.12	218	30	2,200
		82	8 × 6.7	0.12	262	28	2,800
16V (1C)		100	10 × 7.7	0.12	320	35	2,670
		120	8 × 6.7	0.12	384	28	2,800
		180	10 × 7.7	0.12	576	29	3,430
		270	6.3 × 9.5	0.12	864	11	5,000
		820	10 x 12.6	0.12	2,624	12	5,400
		56	6.3 × 5.9	0.12	224	48	1,300
	23.0	270	8 × 12	0.12	1,080	21	4,000
20V(1D)		390	8 x 12	0.12	1,560	14	4,950
		470	10 × 12.6	0.12	1,880	20	4,300
25V(1E)		47	6.3 × 5.9	0.12	235	49	1,300
	29.0	150	8 × 12	0.12	750	28	2,200
		270	10 × 12.6	0.12	1,350	27	2,700
		18	6.3 × 5.9	0.12	126	64	900
35V(1V)	40.0	82	8 × 12	0.12	574	29	2,200
, ,		150	10 × 12.6	0.12	1,050	28	2,600
			1	1		1	

Note: The surface temperature of aluminum case top must not exceed 105°C. A rise in temperature due to self-heating by ripple current should be factored in.

Part	Numbe	rina	System	,
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OVK Series	470μF	±20%	6.3V	Carrier Tape		10 φ×7.7L	Pb-free and PET coating case
OVK	<u>471</u>	<u>M</u>	<u>0J</u>	<u>TR</u>	-	<u>1008</u>	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

## **Mouser Electronics**

Authorized Distributor

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### Lelon:

OVK101M0JTR-0606	OVK101M1CTR-1008	OVK121M0JTR-0606	OVK121M1ATR-0606	OVK121M1CTR-0807
OVK151M0GTR-0606	OVK151M1ATR-0807	OVK151M1ATR-1008	OVK181M1CTR-1008	OVK221M0JTR-0606
OVK221M0JTR-0807	OVK271M0GTR-0807	OVK271M1ATR-0807	OVK331M0GTR-0606	OVK331M0GTR-0807
OVK331M1ATR-1008	OVK390M1CTR-0606	OVK391M0JTR-0807	OVK471M0JTR-1008	OVK560M1ATR-0606
OVK561M0GTR-0807	OVK680M1ATR-0606	OVK680M1CTR-0606	OVK681M0GTR-1008	OVK820M1CTR-0807
OVK271M1CTR-0807	OVK470M1ETR-0606	OVK102M1CTR-1013	OVK471M1DTR-1013	OVK561M1CTR-0812
OVK331M0JTR-0608	OVK331M0JTR-0606	OVK101M1VTR-0810	OVK821M1CTR-1013	OVK221M1CTR-0807
OVK101M1ETR-0807				