

## **VEH Series**

#### **Features**

- $4\phi \sim 10\phi$ ,  $105^{\circ}$ C, 2,000 hours assured
- · Vertical chip type miniaturized
- · Low impedance capacitors
- Designed for surface mounting on high density PC board
- · RoHS Compliance

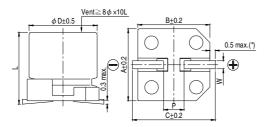


Marking color: Black

### **Specifications**

Items	Performance													
Category Temperature Range	-55°C ~ +105°C													
Capacitance Tolerance	± 20% (at 120Hz, 20°C)													
Leakage Current (at 20°C)		I = 0.01CV or 3 ( $\mu$ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in $\mu$ F, V = rated DC working voltage in V												
Tanō (at 120Hz, 20°C)			ated Voltage 6.3 Tanō (max) 0.30		10 0.26	16 0.22	25 0.16	35 0.13	50					
	Impedance ratio shall not exceed the values given in the table below.													
		impedai						05	0.5	50	٦			
Low Temperature			Rated Voltage		6.3	10	16	25	35	50				
Characteristics (at 120Hz)		Impedano Ratio			4	3	2	2	2	2				
		Rallo	Z(-55°C).	/Z(+20°C)	10	7	5	3	3	3				
Endurance		ove specific at 105°C.	Test Ti Capacitance Tand Leakage C ations shall be s	Change Current	2,000 Hrs  Within $\pm 25\%$ of initial value for $\phi$ D $\leq$ 6.3 mm;  Within $\pm 20\%$ of initial value for $\phi$ D $\geq$ 8 mm  Less than 200% of specified value  Within specified value  n the capacitors are restored to 20°C after the rated voltiles.						ed for 2,000			
			Test Ti	me			1.000 Hrs			7				
0. ***			Capacitance			±25% of inition	_							
Shelf Life Test			Tanč	5	ı	Less than 20	)							
			Leakage C	Current		Within								
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 ho 105°C without voltage applied.										00 hours at			
Ripple Current and		İ	Frequenc	v (Uz)	50, 60	120	1	k	10k up	7				
Frequency Multipliers			Multipl	, , ,	0.64	0.8		93	1.0	-				
	Multipliol 0.04 0.0 0.30 1.0													

### Diagram of Dimensions



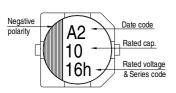
l	_ead	Spa	Un	Unit: mm								
	$\phi$ D		L	Α	В	С	W	P ± 0.2				
	4	5.7	7 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0				
	5	5.7	7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5				
	6.3	5.7	7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0				
	8	10	± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1				
	10	10	± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7				
	(*): For 4 6 3 \( \phi \) is 0.4 may											

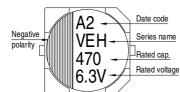
(\*): For  $4 \sim 6.3 \phi$  is 0.4 max.

## Marking

 $\phi D \leq 6.3$ mm

 $\phi D = 8 \sim 10 \text{ mm}$ 





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

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

Impedance: Ω/ at 100k Hz, 20°C

## **Dimension and Permissible Ripple Current**

V. DC		6.3V (0J)		10V (1A)		16V (1C)			25V (1E)			35V (1V)			50V (1H)				
μF	Contents	φ D×L	lmp.	mA	φ D×L	lmp.	mΑ	φ D×L	lmp.	mA	φ D×L	Imp.	mΑ	φDxL	lmp.	mΑ	φ D×L	lmp.	mA
3.3	3R3																4×5.7	5.0	30
4.7	4R7										4×5.7	3.2	65	4×5.7	3.2	65	4×5.7	5.0	30
10	100							4×5.7	3.2	65	5×5.7	1.5	110	5×5.7	1.5	110	5×5.7	3.0	50
22	220				4×5.7	3.2	65	5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170	6.3×5.7	2.0	70
33	330	4×5.7	3.2	65	5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.6	300
47	470	5×5.7	1.5	110	6.3×5.7	0.85	170	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.6	300
100	101	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450	8×10	0.6	300
150	151	6.3×5.7	0.85	170	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450	10×10	0.3	500
220	221	6.3×5.7	0.85	170	8×10	0.45	450	8×10	0.45	450	8×10 10×10	0.45 0.25	450 670	10×10	0.25	670			
330	331	8×10	0.45	450	8×10	0.45	450	8×10	0.45	450	10×10	0.25	670						
470	471	8×10	0.45	450	8×10	0.45	450	10×10	0.25	670									
820	821	10×10	0.25	670	10×10	0.25	670												
1,000	102	10×10	0.25	670															

Part Numbering System

VEH Series 470 $\mu$ F ±20% 6.3V Carrier Tape 8 $\phi$ ×10L Pb-free and PET coating case

VEH471MOJTR-0810Series NameCapacitanceCapacitance<br/>ToleranceRated<br/>VoltagePackage<br/>TypeTerminal<br/>TypeCase sizeLead Wire and<br/>Coating Type

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

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