

VEH Series

Features

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

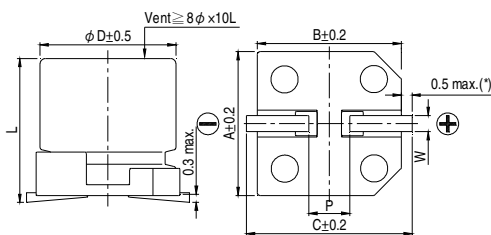


Marking color: Black

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 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V																							
Tanδ (at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.13</td> <td>0.13</td> </tr> </tbody> </table>	Rated Voltage	6.3	10	16	25	35	50	Tanδ (max)	0.30	0.26	0.22	0.16	0.13	0.13									
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>10</td> <td>7</td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		6.3	10	16	25	35	50	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	Z(-55°C)/Z(+20°C)	10	7	5	3	3	3
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Diagram of Dimensions



Lead Spacing and Diameter

Unit: mm

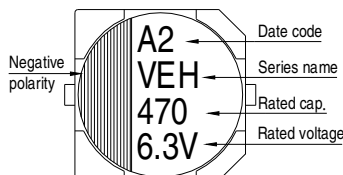
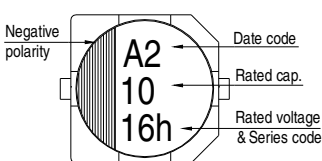
ϕD	L	A	B	C	W	P ± 0.2
4	5.7 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0
5	5.7 ± 0.3	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	5.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	10 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7

(*): For 4 ~ 6.3φ is 0.4 max.

Marking

$\phi D \leq 6.3$ mm

$\phi D = 8 \sim 10$ 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

μF	V. DC Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
3.3	3R3																4x5.7	5.0	30
4.7	4R7										4x5.7	3.2	65	4x5.7	3.2	65	4x5.7	5.0	30
10	100							4x5.7	3.2	65	5x5.7	1.5	110	5x5.7	1.5	110	5x5.7	3.0	50
22	220				4x5.7	3.2	65	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	2.0	70
33	330	4x5.7	3.2	65	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.6	300
47	470	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.6	300
100	101	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	8x10	0.6	300
150	151	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.3	500
220	221	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670			
330	331	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670						
470	471	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670									
820	821	10x10	0.25	670	10x10	0.25	670												
1,000	102	10x10	0.25	670															

Part Numbering System

VEH Series	470 μF	$\pm 20\%$	6.3V	Carrier Tape	8 $\phi \times 10L$	Pb-free and PET coating case
VEH	471	M	0J	TR	-	0810
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.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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