

Chip Type, High Voltage.



- Chip Type, high Voltage.
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

ULR

High Voltage



Item	Performance Characteristics																						
Category Temperature Range	-40 to +105°C																						
Rated Voltage Range	160 to 500V																						
Rated Capacitance Range	2.7 to 39μF																						
Capacitance Tolerance	±20% at 120Hz, 20°C																						
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV +100(μA).																						
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C <table border="1"> <thead> <tr> <th>Rated voltage (V)</th><th>160</th><th>200</th><th>250</th><th>400</th><th>450</th><th>500</th></tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td><td>0.20</td><td>0.20</td><td>0.25</td><td>0.25</td><td>0.30</td><td>0.30</td></tr> </tbody> </table>							Rated voltage (V)	160	200	250	400	450	500	tan δ (MAX.)	0.20	0.20	0.25	0.25	0.30	0.30		
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Stability at Low Temperature	Measurement frequency: 120Hz <table border="1"> <thead> <tr> <th colspan="2">Rated voltage (V)</th><th>160</th><th>200</th><th>250</th><th>400</th><th>450</th><th>500</th></tr> </thead> <tbody> <tr> <td>Impedance ratio ZT / Z20 (MAX.)</td><td>Z-40°C / Z+20°C</td><td>6</td><td>6</td><td>10</td><td>10</td><td>15</td><td>15</td></tr> </tbody> </table>							Rated voltage (V)		160	200	250	400	450	500	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	6	6	10	10	15	15
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Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105°C. <table border="1"> <tbody> <tr> <td>Capacitance change</td><td>Within ±20% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>200% or less than the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </tbody> </table>							Capacitance change	Within ±20% of the initial capacitance value	tan δ	200% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value										
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Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.																						
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right when they are removed from the plate. <table border="1"> <tbody> <tr> <td>Capacitance change</td><td>Within ±10% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>Less than or equal to the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </tbody> </table>							Capacitance change	Within ±10% of the initial capacitance value	tan δ	Less than or equal to the initial specified value	Leakage current	Less than or equal to the initial specified value										
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Marking	Black print on the case top.																						

($\phi 8$, $\phi 10$)
Voltage(2G : 400V)
Lot No.
Trade mark
Series
Capacitance
Plastic platform
0.3MAX.
 $\phi D \pm 0.5$
 $L \pm 1.0$
Pressure relief vent
 $B \pm 0.2$
 $C \pm 0.2$
0.5MAX.
 $E \pm 0.2$
 $A \pm 0.2$
H
⊕ Positive
⊖ Negative

$\phi \times L$	8 x 10	10 x 10	10 x 13.5
A	2.9	3.2	3.2
B	8.3	10.3	10.3
C	8.3	10.3	10.3
E	3.1	4.5	4.5
L	10	10	13.5
H	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1

Voltage

V	160	200	250	400	450	500
Code	2C	2D	2E	2G	2W	2H

U L R 2 G 8 R 2 M N L 1 G S

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Type

Series name

Rated voltage (400V)

Rated capacitance (8.2μF)

Capacitance tolerance (±20%)

Configuration

Taping code

Cap.(μF)	V Code	160 2C		200 2D		250 2E		400 2G		450 2W		500 2H	
2.7	2R7											8 × 10	20
3.9	3R9									8 × 10	25	10 × 10	35
4.7	4R7							8 × 10	35				
5.6	5R6											10 × 13.5	40
6.8	6R8									10 × 10	40		
8.2	8R2							10 × 10	50				
10	100					8 × 10	35			10 × 13.5	45		
12	120			8 × 10	50			10 × 13.5	55				
15	150	8 × 10	50			10 × 10	50						
22	220			10 × 10	65	10 × 13.5	55						
27	270	10 × 10	65										
33	330			10 × 13.5	70								
39	390	10 × 13.5	70									Case size ø D × L (mm)	Rated ripple

Rated ripple current (mA_{rms}) at 105°C 120Hz

- Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.60

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

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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