



RGV Series

Features

- 105°C, 2,000 hours assured
- Suitable for electronic equipment with high voltage circuits
- Flame retardant type capacitor
- RoHS Compliance

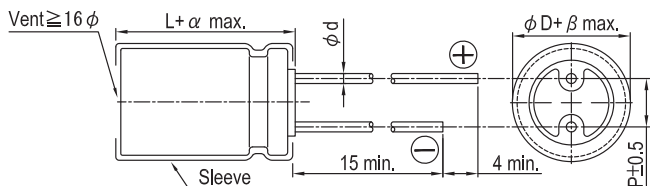


Sleeve & Marking Color: Black & White

Specifications

Items	Performance												
Category Temperature Range	-25°C ~ +105°C												
Capacitance Tolerance	±20% (at 120Hz, 20°C)												
Leakage Current (at 20°C)	$I = 3\sqrt{CV}$ or 1.5 mA whichever is smaller (after 5 minutes) Where, C = rated capacitance in $\mu\text{F}$ , V = rated DC working voltage in V												
Tan $\delta$ (at 120 Hz, 20°C)	<table border="1"> <tr> <td>Rated Voltage</td> <td>400</td> <td>450</td> </tr> <tr> <td>Tan<math>\delta</math> (max)</td> <td>0.25</td> <td>0.25</td> </tr> </table>	Rated Voltage	400	450	Tan $\delta$ (max)	0.25	0.25						
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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"> <tr> <td>Rated Voltage</td> <td>400</td> <td>450</td> </tr> <tr> <td>Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>14    16</td> </tr> </table>	Rated Voltage	400	450	Impedance Ratio	Z(-25°C)/Z(+20°C)	14    16						
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Shelf Life Test	<table border="1"> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tan<math>\delta</math></td> <td>Less than 150% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).</p>	Test Time	1,000 Hrs	Capacitance Change	Within ±20% of initial value	Tan $\delta$	Less than 150% of specified value	Leakage Current	Within specified value				
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Ripple Current and Frequency Multipliers	<table border="1"> <tr> <td>Frequency (Hz)</td> <td>60 (50)</td> <td>120</td> <td>500</td> <td>1k</td> <td>10k up</td> </tr> <tr> <td>Multiplier</td> <td>0.75</td> <td>1.0</td> <td>1.05</td> <td>1.10</td> <td>1.15</td> </tr> </table>	Frequency (Hz)	60 (50)	120	500	1k	10k up	Multiplier	0.75	1.0	1.05	1.10	1.15
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Diagram of Dimensions



Lead Spacing and Diameter

	16	18	20	22
$\phi D$	16	18	20	22
P	7.5	7.5	10	10
$\phi d$	0.8		1.0	
$\alpha$	2.0			
$\beta$	0.5			

Unit: mm

Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 120 Hz, 105°C

Cap. ( $\mu\text{F}$ )	Contents	400V (2G)				450V (2W)			
		$\phi D \times L$	mA	* $\phi D \times L$	mA	$\phi D \times L$	mA	* $\phi D \times L$	mA
22	220	16×20	255			16×25	265		
33	330	16×25	350			16×35.5	365	16×31.5	360
47	470	16×35.5	420	16×31.5	400	18×31.5	425	16×35.5	420
56	560	16×35.5	440	18×25	450	16×35.5	445	16×31.5	435
68	680	16×35.5	500	18×31.5	510	20×35	530	18×35.5	510
82	820	18×35.5	525	20×30	530	22×30	545	18×40	525
100	101	18×40	585	20×35	595	22×35	592	20×40	595
120	121	20×40	625	22×35	632	22×45	656	22×40	632
150	151	22×40	654						

Note: Case size in mark of "\*" is downsize

Part Numbering System

RGV Series    22 $\mu\text{F}$     ±20%    450V    Bulk Package    Gas Type    16  $\phi$  ×25L    Pb-free and PET sleeve

**RGV**    **220**    **M**    **2W**    **BK**    -    **1625**

Series Name    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration & Package    Rubber Type    Case Size    Lead Wire and Sleeve type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.