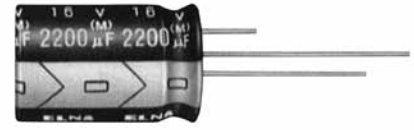


Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

- Guaranteed 5000 hours at 125°C. (4000 hours: 63V to 80V -  $\phi 16 \times 20L$ )
- Best-suited to smoothing circuits and control circuits for industrial equipment power supplies of which long life and high reliability are required.
- NC terminal added items are lineup for vibration resistance.  
(30G guaranteed : 20mmL or less)
- Environmental : GREEN CAP™ , RoHS compliance.



For vibration



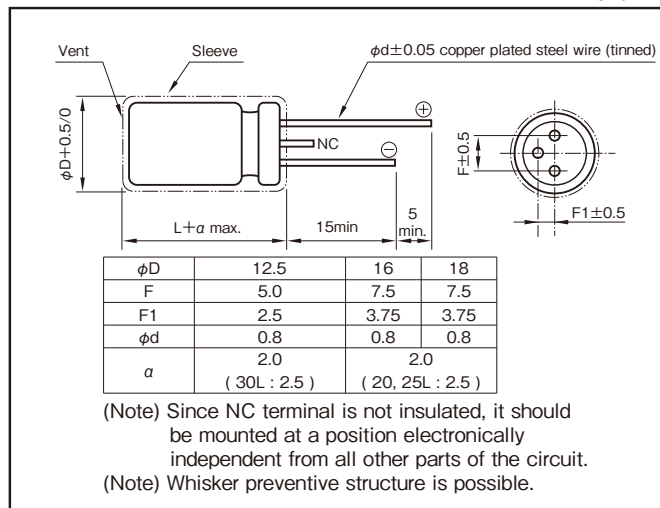
Marking color : White print on a black sleeve

### Specifications

Item	Performance																
Category temperature range (°C)	-40 to +125																
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)																
Leakage current (µA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (µF), V : Rated voltage (V) (20°C)																
Tangent of loss angle (tanδ)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>tanδ (max.)</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.08</td> </tr> </tbody> </table> <p>0.02 is added to every 1000µF increase over 1000µF. (20°C, 120Hz)</p>	Rated voltage (V)	10	16	25	35	50	63	80	tanδ (max.)	0.20	0.16	0.14	0.12	0.10	0.10	0.08
Rated voltage (V)	10	16	25	35	50	63	80										
tanδ (max.)	0.20	0.16	0.14	0.12	0.10	0.10	0.08										
Characteristics at high and low temperature	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>Impedance ratio (max.)</td> <td>Z-40°C/Z+20°C</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	Rated voltage (V)	10	16	25	35	50	63	80	Impedance ratio (max.)	Z-40°C/Z+20°C	4	3	3	3	3	3
Rated voltage (V)	10	16	25	35	50	63	80										
Impedance ratio (max.)	Z-40°C/Z+20°C	4	3	3	3	3	3										
Endurance (125°C) (Applied ripple current)	<table border="1"> <tbody> <tr> <td>Test time</td> <td>5000 hours (4000 hours: 63V to 80V - <math>\phi 16 \times 20L</math>)</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Percentage of capacitance change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>Tangent of the loss angle</td> <td>300% or less of the initial specified value</td> </tr> </tbody> </table>	Test time	5000 hours (4000 hours: 63V to 80V - $\phi 16 \times 20L$ )	Leakage current	The initial specified value or less	Percentage of capacitance change	Within ±30% of initial value	Tangent of the loss angle	300% or less of the initial specified value								
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Leakage current	The initial specified value or less																
Percentage of capacitance change	Within ±30% of initial value																
Tangent of the loss angle	300% or less of the initial specified value																
Shelf life (125°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1																
Applicable standards	JIS C5101 - 1, - 4 (IEC 60384 - 1, - 4)																

### Outline Drawing

Unit : mm



### Coefficient of Frequency for Rated Ripple Current

Rated capacitance (µF)	Frequency (Hz)	50 · 60	120	1k	10k · 100k
470 to 1000		0.70	0.75	0.90	1
1200 to 6800		0.80	0.85	0.95	1

### Product code system : 16V2200µF (\*For general product)

RS*	RPK	222	M	1E	J25	300	DT
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Lead-forming and packing code	Additional code

- If it is whisker preventive structure, should change "T" into "G".
- For details, refer to the various "Product Code System" pages.
- Lead-forming and packing code on this page are for lead long and standard packing products.  
For standard packing, please refer to the "PACKING" page.

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

### Standard Ratings

Rated voltage (V)	Item	10 (1L)				16 (1E)				25 (1T)				35 (1G)														
		Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)	Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)	Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)	Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)											
470	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
1000	12.5×15	G15	0.059	1380	12.5×20	G20	0.040	1820	12.5×20	G20	0.040	1820	12.5×25	G25	0.032	2400	12.5×25	G25	0.032	2400								
					16×16	J16	0.044	1930	12.5×25	G25	0.032	2400	16×25	J25	0.024	3100	16×25	J25	0.024	3100								
					—	—	—	—	16×16	J16	0.044	1930	18×20	K20	0.029	2490	18×20	K20	0.029	2490								
1200	—	—	—	—	—	—	—	—	12.5×20	G20	0.040	1820	12.5×30	G30	0.029	2560	16×20	J20	0.032	2280								
1500	—	—	—	—	—	—	—	—	—	—	—	—	12.5×35	G35	0.023	2970	12.5×35	G35	0.023	2970								
													16×31.5	J31	0.020	3160	16×31.5	J31	0.020	3160	18×25	K25	0.022	3200	18×25	K25	0.022	3200
													—	—	—	—	18×25	K25	0.022	3200	12.5×40	G40	0.020	3600	12.5×40	G40	0.020	3600
1800	—	—	—	—	—	—	—	—	12.5×25	G25	0.032	2400	12.5×30	G30	0.029	2560	16×25	J25	0.024	3100								
									16×20	J20	0.032	2280	16×25	J25	0.024	3100	16×25	J25	0.024	3100	16×35.5	J35	0.019	3590				
2200	12.5×25	G25	0.032	2400	12.5×25	G25	0.032	2400	12.5×30	G30	0.029	2560	16×31.5	J31	0.020	3160	16×31.5	J31	0.020	3160								
					16×20	J20	0.032	2280	16×25	J25	0.024	3100	18×20	K20	0.029	2490	18×25	K25	0.022	3200	18×25	K25	0.022	3200				
					18×16	K16	0.041	2170	18×20	K20	0.029	2490	18×20	K20	0.029	2490	18×25	K25	0.022	3200	18×35.5	J35	0.019	3590				
2700	—	—	—	—	—	—	—	—	12.5×35	G35	0.023	2970	16×35.5	J35	0.019	3590	16×35.5	J35	0.019	3590								
									16×25	J25	0.024	3100	18×31.5	K31	0.018	3410	18×31.5	K31	0.018	3410	18×31.5	K31	0.018	3410				
									18×20	K20	0.029	2490	18×20	K20	0.029	2490	18×20	K20	0.029	2490	18×31.5	K31	0.018	3410	18×31.5	K31	0.018	3410
3300	16×25	J25	0.024	3100	16×31.5	J31	0.020	3160	12.5×40	G40	0.020	3600	16×40	J40	0.017	4300	16×40	J40	0.017	4300								
	18×20	K20	0.029	2490	18×25	K25	0.022	3200	16×31.5	J31	0.020	3160	18×35.5	K35	0.017	4200	18×35.5	K35	0.017	4200								
3900	—	—	—	—	—	—	—	—	16×35.5	J35	0.019	3590	—	—	—	—	—	—	—									
									18×25	K25	0.022	3200	—	—	—	—	—	—	—	—	—	—	—	—				
4700	16×31.5	J31	0.020	3160	16×35.5	J35	0.019	3590	18×35.5	K35	0.017	4200	18×40	K40	0.016	4600	18×40	K40	0.016	4600								
	18×25	K25	0.022	3200	18×31.5	K31	0.018	3410	—	—	—	—	—	—	—	—	—	—										
5600	—	—	—	—	—	—	—	—	16×40	J40	0.017	4300	—	—	—	—	—	—										
									18×35.5	K35	0.017	4200	—	—	—	—	—	—	—	—	—	—	—					
6800	—	—	—	—	—	—	—	—	18×40	K40	0.016	4600	—	—	—	—	—	—										

Rated voltage (V)	Item	50 (1U)				63 (4E)				80 (1R)			
		Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)	Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)	Case φD × L (mm)	Size code	ESR ( Ω max.)	Rated ripple current (mArms)
470	—	12.5×20	G20	0.070	1500	—	—	—	—	16×25	J25	0.116	1500
560	—	—	—	—	—	—	—	—	—	18×25	K25	0.100	1600
820	12.5×30	G30	0.038	2150	16×31.5	J31	0.080	1910	18×35.5	K35	0.062	2180	
1000	16×25	J25	0.031	2620	16×35.5	J35	0.066	2110	18×40	K40	0.051	2470	
1800	18×31.5	K31	0.025	3140	—	—	—	—	—	—	—	—	
2200	18×35.5	K35	0.022	3510	—	—	—	—	—	—	—	—	

(Note) Rated ripple current : 125°C , 100kHz ; ESR : 20°C , 100kHz