WEET®
We Enhance Efficiency

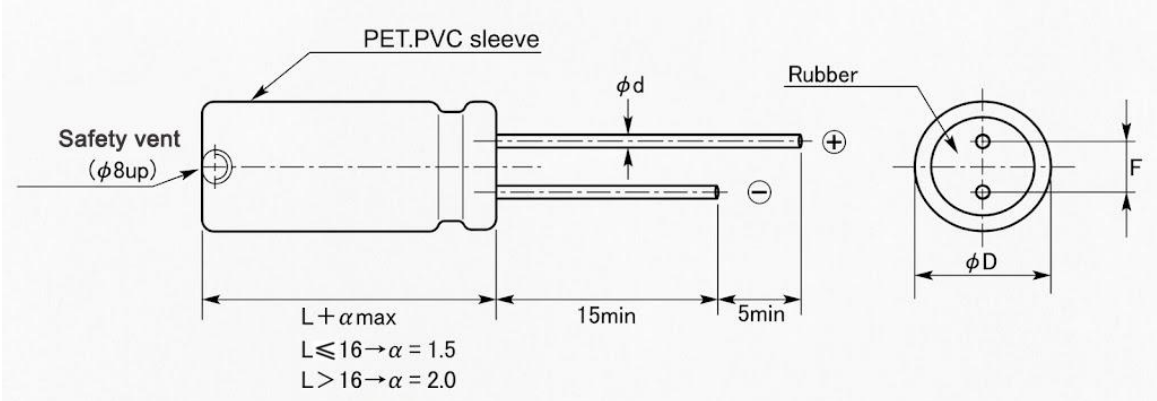
WGD-LRG Series

Radial Aluminum Electrolytic Capacitor
Low Impedance for High Frequency

FEATURES

- Low impedance for high frequency , Life time:2000-3000 Hours at 125℃
- Used in main board , hi-fi acoustics ,numeral color-TV Outdoor lighting circuits etc.
- Variety of packing: Bulk , Ammo

DRAWING and DIMENSIONS (mm)



DØ(+0.5Max)	5	6.3	8	10~13	16	18
F(±0.5)	2	2.5	3.5	5	7.5	
dØ(+0.5Max)	0.5		0.5, 0.6	0.6	0.8	

PICTURE

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SPECIFICATIONS

<table>
<tr><th>No.</th><th>Item</th><th>Performance</th></tr>
<tr><td>1</td><td>Operating Temperature Range</td><td>-55 to +125^{0}C</td></tr>
<tr><td>2</td><td>Rated Working Voltage Range</td><td>6.3-100V.DC</td></tr>
<tr><td>3</td><td>Capacitance Tolerance</td><td>0.47-15000μF</td></tr>
<tr><td>4</td><td>Capacitance Tolerance</td><td>±20%(at+20 ^{0}C,120Hz)</td></tr>
<tr><td>5</td><td>Leakage Current</td><td>I ≤0.03CV or3 minimum (μA) after three minutes
Application of rated working voltage +20℃</td></tr>
<tr><td>6</td><td>Dissipation Factor(tanδ)
（120Hz\+20℃）</td><td>
<table>
<tr><td>Working Voltage（V）</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr>
<tr><td>tanδ max.</td><td>0.24</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td><td>0.1</td><td>0.1</td><td>0.1</td></tr>
</table>
For capacitance value > 1000μF, add 0.02 per another 1000μF</td></tr>
<tr><td>7</td><td>Characteristics at low temperature（Impedance ratio at 120Hz）</td><td>
<table>
<tr><td>Working Voltage（V）</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr>
<tr><td>Z-40℃/+20℃</td><td>14</td><td>12</td><td>10</td><td>10</td><td>10</td><td>7</td><td>7</td><td>7</td></tr>
</table>
</td></tr>
<tr><td>8</td><td>High Temperature Loading</td><td>Application of DC rated working voltage at +10
<table>
<tr><td>DØ</td><td>≤8Ø</td><td>≥10Ø</td></tr>
<tr><td>Life hours</td><td>2000</td><td>3000</td></tr>
</table>
The capacitor shall meet the following limits:
Post test requirements at + 20℃
<table>
<tr><td>Leakage current</td><td>≤ the Initial specified value</td></tr>
<tr><td>Capacitance change</td><td>≤±30% of initial measured value</td></tr>
<tr><td>Dissipation Factor(tanδ)</td><td>≤300% of initial specified value</td></tr>
</table>
</td></tr>
<tr><td>9</td><td>Shelf Life</td><td>After 1000hrs. Application of DC no rated working voltage at +125℃,The capacitor shall meet the following limits: Post test requirements at + 20℃
<table>
<tr><td>Leakage current</td><td>≤300% of initial specified value</td></tr>
<tr><td>Capacitance change</td><td>≤±30% of initial measured value</td></tr>
<tr><td>Dissipation Factor(tanδ)</td><td>≤300% of initial specified value</td></tr>
</table>
</td></tr>
</table>

Temperature Coefficient

Coefficient / Temperature（℃）	105	85	≤65
Coefficient	1.0	1.7	2.1

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV（SV） / Item / uF	6.3（8）			10（13）			16（20）			25（32）		
	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX
10							5x11	33	4.00	5x11	50	2.10
22							5x11	63	2.00	5x11	108	1.80
33							5x11	117	1.26	5x11	135	1.20
47				5x11	108	1.20	5x11	171	0.52	5x11	198	0.50
68				5x11	130	0.89	5x11	189	0.45	6.3x11	243	0.39
100	5x11	167	0.95	5x11	184	0.48	6.3x11	234	0.31	6.3x11	270	0.28
150	6.3x11	189	0.75	6.3x11	243	0.37	6.3x11	270	0.26	8x12	391	0.19
220	6.3x11	270	0.55	6.3x11	297	0.28	8x12	409	0.21	8x12	495	0.125
330	8x12	351	0.30	8x12	387	0.16	8x12	495	0.12	10x13	648	0.082
470	8x12	387	0.22	8x12	499	0.12	10x13	649	0.095	10x16	936	0.065
680	8x12	459	0.18	10x13	594	0.10	10x16	828	0.074	10x20	1152	0.052
1000	10x13	594	0.10	10x16	909	0.07	10x20 10x25	990 1062	0.054 0.050	13x20 13x25	1377 1422	0.039 0.038
1500	10x16 10x20	945 990	0.074 0.054	10x20	1143	0.054	10x25 13x20	1223 1260	0.050 0.041	13x25	1818	0.032
2200	10x25 13x20	1170 1260	0.057 0.050	13x20 13x25	1260 1521	0.050 0.040	13x20 13x25	1665 1755	0.035 0.033	16x25	2164	0.027
3300	13x20 13x25	1260 1350	0.050 0.048	13x25	1782	0.029	16x25	2106	0.028	16x31.5 18x25	2664 2745	0.022 0.020
4700	13x25 16x25	1620 1890	0.032 0.030	16x25	1890	0.029	16x31.5	2385	0.022	18x36	3168	0.021
6800	16x25	2007	0.022	16x31.5	2340	0.025	18x31.5 18x36	2430 2700	0.020 0.022	18x41	3240	0.017
10000	16x31.5 16x36	2340 2466	0.021 0.019	18x31.5 18x36	2493 2700	0.022 0.017	18x41	2970	0.015			

Case Size: ØD×L（mm; Ripple current （mA rms）at125℃,100KHz Impedance[Ω]（20℃\100KHz）

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV（SV） / Item / uF	35（44）			50（62）			63（79）			100（125）		
	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX
1				5x11	22	3.95	5x11	24	2.80	5x11	36	3.50
2.2				5x11	29	2.60	5x11	34	2.40	5x11	46	2.50
3.3				5x11	40	2.00	5x11	43	2.00	5x11	57	2.50
4.7				5x11	52	1.89	5x11	55	1.89	5x11	68	2.50
10	5x11	63	1.90	5x11	90	1.70	5x11	94	1.65	6.3x11	115	1.0
22	5x11	117	1.36	6.3x11	121	1.00	6.3x11	153	0.80	8x12	201	0.64
33	5x11	157	0.95	6.3x11	207	0.74	8x12	220	0.61	10x13	287	0.40
47	6.3x11	225	0.44	8x12	256	0.50	8x12	261	0.56	10x16	375	0.30
68	6.3x11	270	0.35	8x12	306	0.30	8x16	432	0.30	10x20	423	0.25
100	8x12	342	0.19	8x12 10x13	306 427	0.24 0.18	10x16	531	0.24	13x20	513	0.15
150	8x16	522	0.15	10x13 10x16	441 607	0.17 0.13	10x20	711	0.11	13x25	685	0.12
220	10x13	648	0.098	10x16 10x20	607 810	0.12 0.085	10x25 13x20	918 948	0.082 0.080	16x25	943	0.070
330	10x16	895	0.065	10x20 10x25	729 945	0.085 0.068	13x25	1044	0.067	16x31.5	1263	0.050
470	10x20	1035	0.050	13x21	1341	0.048	16x25	1575	0.044	18x41	1782	0.030
680	13x20	1296	0.044	13x25	1656	0.041	16x31.5	1863	0.040			
1000	16x25	1755	0.036	16x25 16x31.5	1440 1917	0.043 0.030	16x36	2205	0.031			
1500	16x25 16x31.5	1890 2268	0.030 0.027	16x31.5 16x36	1800 2430	0.038 0.026	18x35.5	2430	0.025			
2200	16x31.5 18x25	2340 2313	0.025 0.026	18x36	2610	0.024	18x41	2691	0.023			
3300	18x36	2700	0.020									
4700	18x41	2970	0.019									

Case Size: ØD×L（mm; Ripple current （mA rms）at125℃,100KHz Impedance[Ω]（20℃\100KHz）

Note: Other capacitance is available on request. WEET is capable of doing custom service for you.

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PN Structure For Example:

220uF 25V ±20% 8x12mm P:3.5mm Bulk RoHS
PN: WGDLEH1E221M00800120035000BR

WGD-LEH	1E	221	M	00800120	035	000	B	R
Series	Rated Voltage 1.	Capacitance 2.	Capacitance Tolerance 3.	Dimension 4.	Pitch 5.	Lead Length 6.	Packing 7.	Pb 8.

1. Rated Voltage

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A	2B
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V	100V	120V
Code	**2C**	**2K**	**2D**	**2E**	**2F**	**2U**	**2V**	**2G**	**2X**	**2W**	**2H**	**2Y**
Voltage	160V	180V	200V	250V	315V	330V	350V	400V	420V	450V	500V	550V

2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	00500110	00630120	01300200	03500450
Dimension (mm)	5x11	6.3×112	13×20	35×45

5. Pitch

Code	020	075	100	127
Pitch (mm)	2.0	7.5	10	12.7

6. Lead Length

Code	000	040	045	050
Lead Length	Standard	4.0	4.5	5.0

7. Packing

Code	B	A
Packing	Bulk	Ammo

8. Pb

Code	L	R
Pb	Leaded	RoHS

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