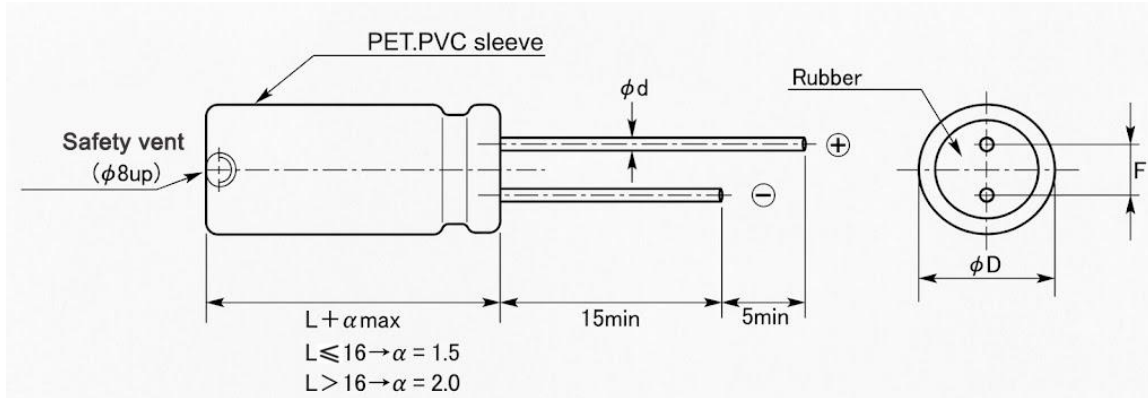


FEATURES

- Low ESR for high frequency , Life time:1000 ~3000 Hours at 105 °C
- Used in main board , hi-fi acoustics ,numeral color-TV 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



SPECIFICATIONS

No.	Item	Performance																																														
1	Operating Temperature Range	-40 to +105°C	-25 to +105°C																																													
2	Rated Working Voltage Range	6.3-100V.DC	160~450V.DC																																													
3	Capacitance Tolerance	0.47-15000µF	0.47-470µF																																													
4	Capacitance Tolerance	±20%(at+20 °C,120Hz)																																														
5	Leakage Current	I ≤0.01CV or 3 minimum (µA) after three minutes Application of rated working voltage +20°C	I ≤0.03CV after three minutes Application of rated working voltage +20°C																																													
6	Dissipation Factor(tanδ) (120Hz\+20°C)	<table border="1"> <thead> <tr> <th>Working Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>350,400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ max.</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> <td>0.15</td> <td>0.15</td> <td>0.17</td> </tr> </tbody> </table> <p>For capacitance value > 1000µF, add 0.02 per another 1000µF</p>											Working Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350,400	450	tanδ max.	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.15	0.15	0.17												
Working Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350,400	450																																					
tanδ max.	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.15	0.15	0.17																																					
7	Characteristics at low temperature (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>Working Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25~50</th> <th>63,100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/+20°C</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z-40/°C+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>-</td> </tr> </tbody> </table>											Working Voltage	6.3	10	16	25~50	63,100	160	200	250	350	400	450	Z-25°C/+20°C	4	3	3	3	2	2	2	3	5	5	6	Z-40/°C+20°C	8	6	4	3	3	3	6	6	6	6	-
Working Voltage	6.3	10	16	25~50	63,100	160	200	250	350	400	450																																					
Z-25°C/+20°C	4	3	3	3	2	2	2	3	5	5	6																																					
Z-40/°C+20°C	8	6	4	3	3	3	6	6	6	6	-																																					
8	High Temperature Loading	<p>Application of DC rated working voltage at +10. The capacitor shall meet the following limits: Post test requirements at + 20°C</p> <table border="1"> <thead> <tr> <th>D0</th> <th>≤80</th> <th>≥100</th> </tr> </thead> <tbody> <tr> <td>Life hours</td> <td>3000</td> <td>5000</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Leakage current</td> <td>≤ the Initial specified value</td> </tr> <tr> <td>Capacitance change</td> <td>≤±25% of initial measured value</td> </tr> <tr> <td>Dissipation Factor(tanδ)</td> <td>≤200% of initial specified value</td> </tr> </tbody> </table>										D0	≤80	≥100	Life hours	3000	5000	Leakage current	≤ the Initial specified value	Capacitance change	≤±25% of initial measured value	Dissipation Factor(tanδ)	≤200% of initial specified value																									
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Dissipation Factor(tanδ)	≤200% of initial specified value																																															
9	Shelf Life	<p>After 1000hrs. Application of DC no rated working voltage at +105°C,The capacitor shall meet the following limits: Post test requirements at + 20°C</p> <table border="1"> <tbody> <tr> <td>Leakage current</td> <td>≤200% of initial specified value</td> </tr> <tr> <td>Capacitance change</td> <td>≤±20% of initial measured value</td> </tr> <tr> <td>Dissipation Factor(tanδ)</td> <td>≤200% of initial specified value</td> </tr> </tbody> </table>										Leakage current	≤200% of initial specified value	Capacitance change	≤±20% of initial measured value	Dissipation Factor(tanδ)	≤200% of initial specified value																															
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Temperature Coefficient

Coefficient	Temperature (°C)	105	85	≤65
	Coefficient	1.0	1.7	2.1

Multiplier for ripple current, Frequency Coefficient

Frequency	60 (50) Hz	120 Hz	400Hz	1K Hz	10K Hz	50~100K Hz
CAP≤10	0.47	0.59	0.76	0.85	0.97	1.00
10<CAP≤100	0.52	0.62	0.80	0.89	0.97	1.00
100<CAP≤1000	0.58	0.72	0.84	0.90	0.98	1.00
1000<CAP	0.63	0.78	0.87	0.91	0.98	1.00



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV (SV) uF Item	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
4.7										5×11	68	0.95
5.6										5×11	75	3.25
6.8										5×11	80	2.98
10							5×11	74	4.70	5×11	85	2.56
22				5×11	98	2.70	5×11	100	260	5×11	125	1.95
33				5×11	100	2.60	5×11	114	2.00	5×11	155	1.42
47				5×11	150	1.34	5×11	155	1.10	5×11	205	1.10
56				5×11	160	1.23	5×11	180	0.82	5×11	230	0.83
68				5×11	170	1.05	5×11	195	0.69	6.3×11	280	0.65
100	5×11	170	1.00	5×11	210	0.80	6.3×11	265	0.50	6.3×11	370	0.35
120	5×11	175	0.92	6.3×11	250	0.75	6.3×11	270	0.47	6.3×11	380	0.33
150	6.3×11	190	0.81	6.3×11	290	0.61	6.3×11	290	0.41	8×12	410	0.31
180	6.3×11	210	0.76	6.3×11	320	0.46	8×12	370	0.34	8×12	455	0.25
220	6.3×11	310	0.65	6.3×11	340	0.35	8×12	480	0.25	8×12	550	0.15
270	6.3×11	320	0.54	8×12	400	0.30	8×12	520	0.21	10×13	720	0.125
330	8×12	390	0.42	8×12	460	0.27	8×12	590	0.156	10×13	820	0.114
470	8×12	450	0.25	8×12	580	0.25	10×13	750	0.124	10×16	1200	0.076
560	8×12	490	0.23	10×13	635	0.16	10×13	785	0.105	10×16	1250	0.072
680	8×12	520	0.21	10×13	765	0.11	10×16	1100	0.092	10×21	1320	0.065
820	8×16	620	0.19	10×16	890	0.10	10×16	1140	0.078	10×25	1530	0.052
1000	10×13	750	0.17	10×16	1040	0.076	10×21	1350	0.065	13×21	1650	0.045
1200	10×16	860	0.16	10×16	1200	0.067	10×25	1500	0.061	13×21	1980	0.041
1500	10×16	1100	0.14	10×21	1400	0.062	13×21	1630	0.056	13×25	2210	0.038
1800	10×21	1250	0.11	10×25	1550	0.058	13×21	1800	0.047	13×25	2510	0.032
2200	10×25 13×21	1300 1470	0.090 0.095	13×21	1750	0.041	13×25	2000	0.038	16×26	2650	0.036
2700	10×25	1480	0.079	13×21	1900	0.035	13×25	2450	0.033	16×26	2820	0.031
3300	13×21	1650	0.060	13×25	2000	0.031	16×26	2790	0.030	16×26 16×32	3050 3240	0.030 0.026
4700	13×30	2100	0.036	16×26	2100	0.030	16×32	2880	0.026	16×36	3650	0.024
5600	13×30	2340	0.034	16×26	2290	0.028	16×36	2990	0.025	18×36	3720	0.024
6800	16×26	2450	0.032	16×32	2650	0.026	18×36	3200	0.024	18×41	3850	0.024
8200	16×32	2650	0.027	16×36	2770	0.026	18×36	3320	0.024			
10000	16×36	2700	0.024	18×36	2850	0.024	18×41	3550	0.024			
15000	18×36	2950	0.023									

Case Size: ØD×L (mm; Ripple current (mA rms) at105°C,100KHz Impedance[Ω] (20°C\100KHz)



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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV (SV) uF / Item	35 (44)			50 (63)			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
0.47				5×11	25	5.40	5×11	25	5.40	5×11	20	5.90
1				5×11	40	4.00	5×11	33	4.00	5×11	30	4.40
2.2				5×11	55	2.80	5×11	45	2.80	5×11	42	3.30
3.3				5×11	60	2.20	5×11	58	2.20	5×11	55	2.80
4.7	5×11	85	3.65	5×11	90	2.00	5×11	65	2.00	5×11	72	2.60
5.6	5×11	92	3.09	5×11	105	1.93	5×11	95	1.90	5×11	100	2.33
6.8	5×11	97	2.82	5×11	110	1.89	5×11	100	1.82	6.3×11 1	115	1.95
10	5×11	105	2.37	5×11	120	1.82	5×11	110	1.75	6.3×11 1	130	1.77
22	5×11	150	1.50	5×11	135	1.35	6.3×11 1	240	0.80	8×12	220	0.85
33	5×11	180	1.21	6.3×11	250	0.80	8×12	270	0.61	10×13	320	0.69
47	6.3×11	280	0.80	6.3×11	290	0.65	8×12	300	0.56	10×13	370	0.58
56	6.3×11	310	0.64	8×12	310	0.49	8×12	330	0.38	10×13	400	0.43
										10×16	440	0.42
68	8×12	350	0.52	8×12	375	0.33	10×13	480	0.21	10×16	470	0.35
100	8×12	450	0.25	10×13	480	0.17	10×16	610	0.14	10×25	560	0.30
120	8×12	510	0.220	10×13	530	0.156	10×16	620	0.125	10×25	660	0.22
150	8×12	540	0.190	10×13	590	0.132	10×16	700	0.111	13×21	780	0.174
180	10×13	650	0.172	10×16	860	0.114	10×21	800	0.096	13×21	820	0.142
220	10×13	750	0.114	10×16	930	0.096	10×21	1100	0.080	13×25	880	0.130
270	10×16	910	0.095	10×21	960	0.078	13×21	1150	0.065	13×25	1120	0.110
330	10×16	1050	0.079	10×25	1150	0.065	13×21	1250	0.055	13×30	1440	0.100
470	10×21	1200	0.065	13×21	1590	0.055	13×25	1620	0.053	16×26 18×32	1650 1700	0.090 0.075
560	10×25	1500	0.061	13×21	1660	0.050	13×25	1680	0.049	16×32	1720	0.085
680	13×21	1570	0.056	13×25	1930	0.044	13×30	1950	0.043	16×36	1790	0.080
820	13×21	1700	0.048	13×30	2100	0.039	16×26	2150	0.038	18×36	1840	0.071
1000	13×25	1900	0.042	16×26	2300	0.036	16×32	2350	0.034	18×41	1930	0.066
1200	13×30	2130	0.038	16×32	2650	0.036	16×36	2550	0.032			
1500	16×26	2270	0.036	16×36	2750	0.034	18×36	2710	0.031			
1800	16×32	2700	0.035	16×36	2850	0.034	18×41	3000	0.027			
2200	16×32	2850	0.034	18×36	3040	0.032						
2700	16×36	2780	0.029	18×41	3070	0.027						
3300	18×36	3100	0.026	18×41	3100	0.025						
4700	18×41	3500	0.024									

Case Size: ØD×L (mm; Ripple current (mA rms) at 105°C, 100KHz Impedance[Ω] (20°C\100KHz)



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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV (SV) uF / Item	160 (200)			200 (250)			250 (300)			350 (400)		
	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX
0.47	5×11	36	9.44	5×11	36	9.38	5×11	40	8.85	6.3×11	40	8.82
1	6.3×11	45	7.85	6.3×11	45	7.76	6.3×11	50	6.54	8×12	58	6.35
2.2	6.3×11	55	5.21	6.3×11	55	5.18	8×12	72	4.12	10×13	86	4.02
3.3	8×12	70	4.31	8×12	71	4.25	8×12	75	3.85	10×16	100	3.52
4.7	8×12	72	4.16	10×13	85	4.12	10×13	100	2.95	10×21	130	2.77
5.6	10×13	91	3.61	10×13	92	3.55	10×13	105	2.72	10×21	132	2.58
6.8	10×16	100	3.12	10×16	115	2.71	10×16	140	1.86	10×25	180	1.65
10	10×16	120	2.69	10×16	132	2.02	10×16	160	1.40	10×25	200	1.35
22	10×21	205	1.30	10×21	205	1.20	10×21	185	1.30	13×21	220	1.22
33	13×21	260	1.10	13×21	330	0.62	13×21	260	0.90	13×25	290	0.86
47	13×21	320	0.91	13×25	400	0.51	13×25	406	0.45	16×32	430	0.62
56	13×21	340	0.67	13×25	430	0.45	13×25	420	0.42	16×36	460	0.60
	13×25	370	0.66									
68	13×25	410	0.56	16×26	540	0.35	16×26	490	0.38	16×36	475	0.56
100	16×26	500	0.47	16×26	700	0.19	16×32	675	0.25	18×36	513	0.55
				16×32	820	0.17						
120	16×26	520	0.35	16×32	820	0.17	16×36	730	0.24	18×41	560	0.52
150	16×32	660	0.26	16×36	840	0.16	18×32	750	0.23			
180	16×36	760	0.22	18×36	920	0.15	18×36	830	0.21			
220	16×36	820	0.19	18×41	1080	0.14	18×41	910	0.20			
270	18×36	890	0.18									
330	18×41	1000	0.16									

WV (SV) uF / Item	400 (450)			450 (500)		
	Case Size	Ripple Current	Impedance MAX	Case Size	Ripple Current	Impedance MAX
0.47	6.3×11	26	23.1	8×12	30	23.20
1	8×12	36	16.5	10×13	41	17.35
2.2	10×13	65	9.58	10×16	60	10.25
3.3	8×9	30	8.25	10×21	89	5.65
4.7	10×16	86	5.01	10×25	130	5.01
	8×10	35	6.32			
5.6	10×25	130	4.81	13×21	140	4.92
6.8	8×12	42	5.18	13×21	145	4.05
	10×25	160	3.55			
10	10×13	78	4.86	13×25	165	3.78
	13×21	245	3.32			
22	13×25	305	2.65	13×25	255	2.80
33	16×26	335	1.21	16×26	360	2.20
47	16×32	560	0.92	16×36	550	1.02
56	16×36	600	0.85	18×32	580	0.95
68	18×36	750	0.75	18×36	700	0.78
100	18×41	950	0.52			

Case Size: ØD×L (mm; Ripple current (mA rms) at 105°C, 100KHz Impedance[Ω] (20°C\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
<u>Series</u>	<u>Rated Voltage</u>	<u>Capacitance</u>	<u>Capacitance Tolerance</u>	<u>Dimension</u>	<u>Pitch</u>	<u>Lead Length</u>	<u>Packing</u>	<u>Pb</u>
	<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>	<u>6.</u>	<u>7.</u>	<u>8.</u>

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

