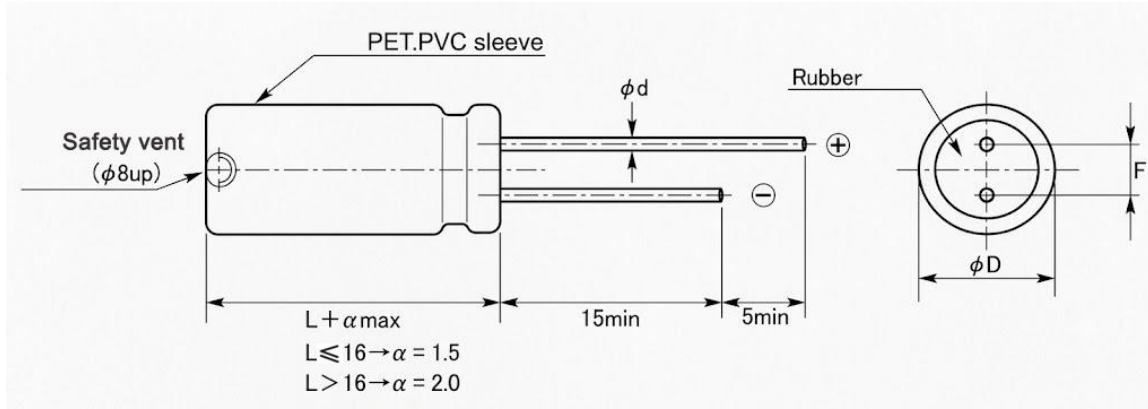


**FEATURES**

- Wide temperature range. Life time:3000 ~5000 Hours at 105°C
- Small size,large capacity
- Used in VCD、DVD、color-TV、air conditioning circuits etc
- Variety of packing: Bulk, Ammo

**DRAWING and DIMENSIONS (mm)**



DØ(+0.5Max)	5	6.3	8	10~13	16	18	20	22
F(±0.5)	2	2.5	3.5	5	7.5		10	
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 - 63V.DC	100 - 450V.DC																																		
3	Capacitance Tolerance	0.1 - 22000μF	0.1 - 1000μF																																		
4	Capacitance Tolerance	±20%(at+20°C,120Hz)																																			
5	Leakage Current	I≤0.01CV or 3 ( μA ) min	I≤0.03CV or 20 ( μA ) min																																		
		L: Leakage Current ( μA ) Whichever is greater after 3 minutes. C: Rated Capacitance ( μF ) V: Working Voltage ( V )																																			
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>350~450</th> </tr> </thead> <tbody> <tr> <td>tanδ max.</td> <td>0.22</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table>									Working Voltage (V)	6.3	10	16	25	35	50	63	100	160 250	350~450	tanδ max.	0.22	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.20	0.24					
		Working Voltage (V)	6.3	10	16	25	35	50	63	100	160 250	350~450																									
tanδ max.	0.22	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.20	0.24																											
		For capacitance value > 1000μF, add 0.02 per another 1000μF																																			
7	Characteristics at low temperature ( Impedance ratio at 120Hz )	<table border="1"> <thead> <tr> <th>Working Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25~100</th> <th>160~250</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>2</td> <td>2</td> <td>3</td> <td>6</td> <td>6</td> <td>15</td> </tr> <tr> <td>Z-40°C/+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td colspan="4">-</td> </tr> </tbody> </table>									Working Voltage (V)	6.3	10	16	25~100	160~250	350	400	450	Z-25°C/+20°C	4	3	2	2	3	6	6	15	Z-40°C/+20°C	8	6	4	3	-			
		Working Voltage (V)	6.3	10	16	25~100	160~250	350	400	450																											
		Z-25°C/+20°C	4	3	2	2	3	6	6	15																											
Z-40°C/+20°C	8	6	4	3	-																																
		For capacitance value > 1000μF, Add 0.5 per another 1000μF for -25°C/+20°C. Add 1.0r another 1000μF for -40°C/+20°C																																			
8	High Temperature Loading	Application of DC rated working voltage at +105°C, The capacitor shall meet the following limits: Post test requirements at + 20°C																																			
		Leakage current		≤ the Initial specified value																																	
		Capacitance change		≤ ±25% of initial measured value																																	
		Dissipation Factor(tanδ)		≤200% of initial specified value																																	
9	Shelf Life	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																																			
		Leakage current		≤200% of initial specified value																																	
		Capacitance change		≤ ±20% of initial measured value																																	
		Dissipation Factor(tanδ)		≤200% of initial specified value																																	

Temperature Coefficient

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

Multiplier for ripple current, Frequency Coefficient

Frequency μF	60 ( 50 ) Hz	120 Hz	400Hz	1K Hz	≥10K Hz
0.1~47	0.80	1.00	1.20	1.30	1.50
68~680	0.80	1.00	1.10	1.15	1.20
1000~22000	0.80	1.00	1.05	1.10	1.15



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**DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT**

W.V. (SV) μF	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)	
	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.
0.1											5×11	1.3	5×11	1.3
0.22											5×11	2.9	5×11	2.9
0.33											5×11	4	5×11	4
0.47											5×11	8	5×11	9
0.68											5×11	9	5×11	9
1.0											5×11	13	5×11	18
2.2											5×11	20	5×11	20
3.3											5×11	25	5×11	28
4.7											5×11	30	5×11	34
6.8											5×11	37	5×11	40
10							5×11	45	5×11	47	5×11	46	5×11	50
22					5×11	55	5×11	60	5×11	66	6.3×11	68	6.3×11	82
33			5×11	60	5×11	72	5×11	79	5×11	90	6.3×11	90	8×11	100
47			5×11	71	5×11	86	5×11	94	6.3×11	100	6.3×11 8×9	125 130	8×11	135
56			5×11	80	5×11	104	6.3×11	108	6.3×11	148	6.3×11 8×11	130 156	8×11 10×13	146 197
68			5×11	83	5×11	110	6.3×11	114	6.3×11	150	8×11	162	10×13	200
100	5×11	102	5×11	115	5×11 6.3×11	120 135	6.3×11	148	8×11	210	8×11 10×13	230 250	10×13	263
220	6.3×11	185	6.3×11	190	6.3×11 8×11	220 242	8×11	255	8×14 10×13	288 320	10×16	360	10×20	400
330	6.3×11	210	6.3×11	235	8×11	300	8×14 10×13	335 367	8×14 10×16	400 460	10×21	470	13×21	540
470	6.3×11	275	8×11	340	8×11 10×13	375 400	8×14 10×13	375 440	10×16 10×21	525 589	13×21	600	13×25	700
560	8×12	310	8×12	330	10×13	410	10×16	460	10×21	590	16×21	630	16×26	750
680	8×12	314	10×13	390	10×13	480	10×21	520	10×21	650	16×21	730	16×26	860
820	8×12	390	10×13	480	10×16	550	10×21	640	13×21	740	13×25	850	16×26	920
1000	10×13	460	10×13 10×16	520 580	10×16	640	10×21 13×16	740 784	13×21	865	16×26	1060	16×31	1200
2200	10×21	775	10×21	860	13×21	1050	13×26	1230	16×26	1379	18×36	1600		
3300	13×21	985	13×21	1100	13×25	1300	16×26	1500	16×36	1680	18×36	1780		
4700	13×21	1150	13×25	1350	16×26	1650	16×36	1932	18×36	2177				
5600	13×25	1300	16×26	1490	16×32	1720	16×36	1950	18×36	2190				
6800	16×26	1480	16×26	1700	16×32	1900	18×36	2050						
8200	16×26	1520	16×32	1840	16×36	1950	18×36	2090						
10000	16×26	1700	16×36	1950	18×36	2090								
12000	16×32	1750	16×36	2050	18×36	2150								
15000	18×36	2090	16×36	2180										
18000	18×36	2150	18×36	2205										
22000	18×41	2300												

Case Size: ØD×L (mm; Ripple current (mA rms) at 105°C, 100KHz Impedance[Ω] (25°C\100KHz)



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**DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT**

W.V. (SV)	100 (125)		160 (200)		200 (250)		250 (300)		350 (400)		400 (450)		450 (500)	
	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.	SIZE	R.C.
0.1	5×11	1.9												
0.22	5×11	3.4												
0.33	5×11	5												
0.47	5×11	10	5×11	11	5×11	12	5×11	12	6.3×12	13	6.3×12	13	6.3×12	13
0.68	5×11	12	5×11	14	6.3×12	13	6.3×12	13	6.3×12	13	6.3×12	13	8×12	13
1.0	5×11	15	6.3×12	17	6.3×12	17	6.3×12	16	6.3×12	16	8×12	20	8×12	20
2.2	5×11	21	6.3×12	25	6.3×12	25	8×12	25	8×12	31	8×12	36	10×13	35
3.3	5×11	30	6.3×12	32	8×12	35	8×12	38	8×12	38	8×12	40	10×13	31
											10×13	47	10×16	40
4.7	5×11	35	6.3×12	43	8×12	45	8×12	48	10×13	50	8×10	40		
											8×12	50	10×21	80
											10×13	60		
											10×16	70		
6.8	6.3×11	47	8×12	50	10×13	56	10×13	65	10×13	66	8×12	56	10×21	87
											10×16	79		
10	6.3×12	56	10×13	68	8×12	70	10×16	92	10×20	95	10×14	62	13×21	90
					10×13	80					10×16	76		
					10×16	92					10×20	85		
22	8×12	96	10×16	133	10×16	125	13×21	160	13×21	175	13×26	17	13×26	178
					10×21	130						8		
33	8×12	140	10×21	184	13×21	200	13×21	200	13×26	220	16×26	25	16×26	255
												2		
47	10×13	200	13×21	210	13×21	220	13×21	240	16×26	260	16×26	30	16×32	319
												0		
68	10×16	240	13×21	280	13×26	300	16×26	355	16×32	320	16×36	48	18×36	470
											18×36	0		
												50		
												0		
82					16×26	360	16×26	370	18×32	410	18×32	52	18×36	480
												0		
100	13×21	288	13×26	310	16×26	345	16×32	395	18×36	390	18×36	55	18×41	560
												0		
120	13×21	295	16×26	350	16×32	360	16×36	370	18×36	400	18×36	58	22×41	650
											18×41	0		
												62		
												0		
150	13×21	360	16×26	470	16×32	480	16×36	460	18×41	420	18×41	65		
180	13×21	480	16×26	550	16×36	520	18×36	470	18×41	430	18×45	70		
220	13×21	520	16×32	580	16×32	550	18×36	650	22×41	500				
					18×36	650	18×41	700						
330	16×26	690	18×36	705	18×41	670	22×41	780						
					22×41	790								
470	16×26	820												
	16×32	860	18×41	860										
	18×32	880												
560	16×36	880												
680	16×36	920												
	18×32	950												
820	18×36	970												
1000	18×41	1200												
	22×25	1500												

Case Size: ØD×L (mm; Ripple current (mA rms) at 105°C, 100KHz Impedance[Ω] (25°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**

<b>WGD-LEH</b>	<b>1E</b>	<b>221</b>	<b>M</b>	<b>00800120</b>	<b>035</b>	<b>000</b>	<b>B</b>	<b>R</b>
Series	Rated Voltage	Capacitance	Capacitance Tolerance	Dimension	Pitch	Lead Length	Packing	Pb
	1.	2.	3.	4.	5.	6.	7.	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	6.3x112	13x20	35x45

**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

