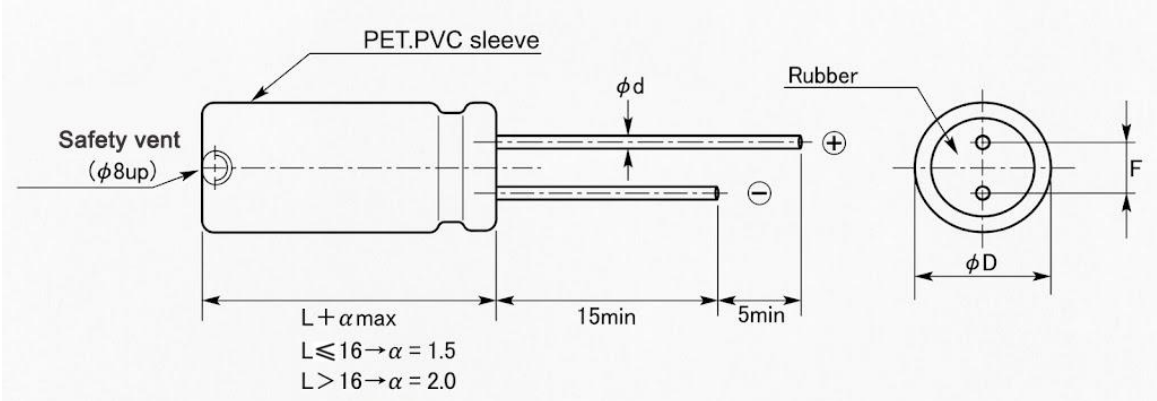
WGD-LEH Series

Radial Aluminum Electrolytic Capacitor Low Impedance

FEATURES

- Low ESR for high frequency , Life time:1000 ~3000 Hours at 105℃
- 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

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SPECIFICATIONS

No.	Item	Performance
1	Operating Temperature Range	-40 to +105^{0}C
2	Rated Working Voltage Range	6.3-100V.DC
3	Capacitance Tolerance	6.8-4700μF
4	Capacitance Tolerance	±20%(at+20 ^{0}C,120Hz)
5	Leakage Current	I ≤0.01CV or 3 minimum(μA) after three minutes Application of rated working voltage +20℃
6	Dissipation Factor(tanδ) （120Hz\+20℃）	Working Voltage（V）: 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 tanδ max.: 0.22 / 0.19 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.08 For capacitance value > 1000μF, add 0.02 per another 1000μF
7	Characteristics at low temperature（Impedance ratio at 120Hz）	Working Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Z-25℃/+20℃: 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2 Z-40/℃+20℃: 8 / 4 / 3 / 3 / 3 / 3 / 4 / 4
8	High Temperature Loading	Application of DC rated working voltage at +10 DØ: ≤8Ø / >8Ø; Life hours: 1000 / 3000 The capacitor shall meet the following limits: Post test requirements at + 20℃ 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℃,The capacitor shall meet the following limits: Post test requirements at + 20℃ 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 / Temperature（℃）	105	85	≤65
Coefficient	1.0	1.7	2.1

Multiplier for ripple current, Frequency Coefficient

μF / Frequency	60（50）Hz	120 Hz	400Hz	1K Hz	10K Hz	50~100K Hz
0.1～47	0.47	0.59	0.76	0.85	0.97	1.00
68～680	0.58	0.72	0.84	0.90	0.98	1.00
1000～4700	0.63	0.78	0.87	0.91	0.98	1.00

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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										5×11	250	0.300
22							5×7	150	0.800	5×7	150	0.800
										6.3×11	405	0.130
33				5×7	150	0.800				6.3×7	210	0.410
47										8×11	760	0.072
56							5×11	250	0.300			
68							5×11	210	0.410			
82	5×7	210	0.410									
100				5×11	250	0.300	6.3×7	300	0.320	8×7	400	0.200
							8×7	350	0.300	8×12	995	0.056
120							6.3×7	400	0.200			
							6.3×11	415	0.130			
150	6.3×7	400	0.200							8×12	550	0.150
	5×11	250	0.300									
180				6.3×7	400	0.200				8×16	1250	0.041
220				6.3×11	405	0.130	8×9	550	0.150	8×9	650	0.120
										10×16	1430	0.038
270	8×7	550	0.150									
330	6.3×11	405	0.130	8×7	550	0.150	8×9	650	0.120	8×12	730	0.100
							8×11	760	0.072	10×21	1820	0.023
390										10×12	820	0.068
470	8×9	650	0.120	8×9	650	0.120	8×11	625	0.100	10×16	1030	0.053
							8×14	880	0.080	13×21	2360	0.021
				8×11	760	0.072	10×14	990	0.056	13×25	2770	0.018
560	8×9	730	0.100				10×13	820	0.068			
	8×11	760	0.072									
680				8×12	730	0.100	10×13	1030	0.053	13×31	3290	0.016
				8×16	995	0.056	10×16	1250	0.041			
							10×16	1430	0.038			
820	10×12	820	0.068	10×12	820	0.068						
	10×16	995	0.056									
1000	10×13	1030	0.053	8×11	900	0.07	10×21	1820	0.023	13×16	1300	0.035
				10×13	1030	0.053				16×21	3140	0.018
				8×16	1250	0.041				16×26	3460	0.016
				10×16	1430	0.038						
1200	10×16	1250	0.041	10×21	1820	0.023	13×16	1300	0.035	13×16	1850	0.023
1500	10×21	1300	0.035	10×25	2150	0.022	13×21	1850	0.023	16×21	2200	0.021
2200	10×25	2150	0.022	13×21	1300	0.035	13×25	2200	0.021	16×21	2350	0.020
2700				13×16	1850	0.023	13×31	3290	0.016	16×26	2350	0.020
							16×21	3140	0.018			
3300	16×21	2200	0.021	13×26	2770	0.018	16×21	2350	0.020	16×26	2650	0.018
3900	13×25	2770	0.018	16×21	2200	0.021	16×21	2150	0.025			
				13×31	3140	0.018	16×26	3460	0.016			
4700	16×21	2350	0.020	16×21	2350	0.020	16×26	2650	0.018			

Case Size: ØD×L（mm; Ripple current （mA rms）at105℃,100KHz Impedance[Ω]（25℃\100KHz）

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

W.V.（SV） / Item / uF	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
6.8										8×12	125	1.400
10	5×7	150	0.800	5×7	150	0.800						
15							6.3×11	165	0.880	8×12	205	0.570
22	6.3×7	210	0.410	6.3×11	238	0.340						
27										10×12	355	0.360
33	6.3×11	250	0.300				8×12	265	0.350			
39										10×16	450	0.250
47										10×16	450	0.240
56	6.3×11	405	0.130	6.3×11	385	0.140	8×12	500	0.220			
				8×12	500	0.220						
82							10×13	685	0.150	10×21	750	0.130
100	6.3×11	550	0.400	10×13	724	0.074				10×25	880	0.120
	8×7	650	0.350									
120				10×13	950	0.061	10×16	945	0.11	13×21	1045	0.094
150	8×9	650	0.120	10×13	979	0.061						
	8×11	760	0.072									
180				10×16	1190	0.046	10×21	1100	0.080	13×26	1195	0.071
220	8×14	780	0.070	10×16	1370	0.042	10×25	1300	0.073	13×31	1410	0.063
270	8×14	820	0.068	10×21	1580	0.030	13×21	1495	0.060	16×26	1600	0.053
330	8×16	700	0.080	10×25	1870	0.028	13×26	1850	0.043			
	10×13	1030	0.053									
390										16×32	1750	0.041
470	10×20	1820	0.028	13×21	2050	0.027	13×26	2250	0.039	18×32	1775	0.039
560				13×26	2410	0.023	16×26	2550	0.032	18×36	2060	0.031
680	13×16	1850	0.023	13×31	2860	0.021	18×21	2450	0.038			
820				13×36	2960	0.019	16×32	2810	0.026			
1000	16×21	2200	0.021	16×26	3010	0.021	18×32	3270	0.025			
1200							18×36	3310	0.020			
1500	16×21	2350	0.020									
1800	16×26	2350	0.020									
2200	16×26	2650	0.018									

Case Size: ØD×L（mm; Ripple current （mA rms）at105℃,100KHz Impedance[Ω]（25℃\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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