JARO Components, Inc.

An ISO Registered Firm

Series: GLUR

Ultra-Low Impedance Radial - Aluminum Electrolytic Capacitor

Features:

- Low Impedance
- High Ripple Current
- Wide Temperature range
- Long Life: 1000~5000 hours, 105°C

Applications:

- AV (TV, Video, Audio)
- Monitor/Computer
- OA/HA Communication
- Converter/Inverter
- SMPS

Specifications:

Items	Characteristics
Capacitance Tolerance	±20% (M) (120Hz,20℃)
Rated Voltage Range (WV)	6.3~100VDC
Operating Temperature Range	-40 ~ +105℃

Surge Voltage (V) (20℃)

WV	6.3	10	16	25	35	50	63	100
SV	8	13	20	32	44	63	79	125

Leakage Current (Max) (20℃)

I≤0.01CV or3μA whichever is greater
(After rated voltage applied for 2 minutes)

I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)

Dissipation Factor (Max) (tanδ) (120Hz ,20℃)

WV	6.3	10	16	25	35	50	63	100
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

When nominal capacitance is over 1000μF,
tanδ shall be added 0.02 to the listed value with increase of every 1000μF.

Low Temperature Stability Impedance Ratio (Max)

WV / Z (120Hz)	6.3	10	16	25	35	50	63	100
Z(-25℃) / Z(20℃)	2	2	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	3	3	3	3	3	3	3	3

Load Life

After applying rated voltage with max. ripple current for 1000~5000 hours at 105℃,the capacitor shall meet the following requirement.

Capacitance Change	Within±25% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not more than the specified value

Case(∅)	Life time(hrs)
L=7	1000
∅D□6.3	2000
∅D = 8	3000
∅D = 10	4000
∅D≧13	5000

Shelf Life

After placed at 105℃without voltage applied for 1000 hours, the capacitor shall meet the same requirement as load life.

Applicable standards

Refer to JIS C 5101

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Series: GLUR

Ultra-Low Impedance Radial - Aluminum Electrolytic Capacitor

CASE SIZE (ØDxL(mm)) & MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 100KHz,105℃ & MAX IMPEDANCE (Z(Ω) / 100KHz, 20℃)

WV / SPEC / μF	6.3			10			16			25			35		
	ØDxL	RC	Z	ØDxL	RC	Z	ØDxL	RC	Z	ØDxL	RC	Z	ØDxL	RC	Z
10													4x7	130	0.96
15										4x7	130	0.94	5x7	190	0.57
18							4x7	130	0.92	5x7	170	0.69	5x7	210	0.47
27				4x7	130	0.89	5x7	190	0.61	5x7	210	0.46	5x11	225	0.37
33				5x7	160	0.75	5x7	210	0.45	5x11	210	0.42	5x11	250	0.30
39	4x7	130	0.85	5x7	175	0.64	5x11	205	0.43	5x11	225	0.36	6.3x7	300	0.25
47	5x7	175	0.70	5x7	190	0.53	5x11	230	0.36	5x11	250	0.30	8x7	345	0.19
													6.3x11	375	0.15
56	5x7	190	0. 56	5x7	210	0.44	5x11	250	0.30	6.3x7	300	0.24	8x7	380	0.16
													6.3x11	410	0.13
68	5x7	210	0.43	5x11	210	0.44	6.3x7	300	0.24	8x7	310	0.22	8x11	510	0.12
										6.3x11	335	0.19			
100	6.3x7	240	0.35	5x11	250	0.30	8x7	345	0.18	8x7	380	0.15	8x11	620	0.105
	5x11	200	0.43				6.3x11	365	0.16	6.3x11	410	0.13			
120	6.3x7	265	0.29	6.3x7	300	0.23	8x7	380	0.15	8x11	560	0.12	8x11	680	0.088
	5x11	220	0.38				6.3x11	410	0.13						
150	6.3x7	300	0.23	8x7	345	0.18	8x11	510	0.12	8x11	625	0.105	8x11	760	0.072
	5x11	250	0.30												
180	8x7	340	0.18	8x7	380	0.15	8x11	560	0.11	8x11	685	0.088	8x16	905	0.068
													10x12.5	930	0.065
220	8x7	380	0.15	6.3x11	410	0.13	8x11	620	0.10	8x11	760	0.072	8x16	1000	0.056
													10x12.5	1030	0.053
270	6.3x11	370	0.16	8x11	575	0.12	8x11	685	0.088	8x16	900	0.068	8x20	1250	0.041
										10x12.5	930	0.065			
330	6.3x11	410	0.13	8x11	635	0.10	8x11	760	0.072	8x16	1000	0.056	10x16	1430	0.038
										10x12.5	1030	0.053			
470	8x11	680	0.086	8x11	760	0.072	8x16	1000	0.056	8x20	1250	0.041	10x20	1820	0.026
							10x12.5	1030	0.053	10x16	1430	0.038			
560	8x11	760	0.072	8x16	905	0.068	8x20	1135	0.049	10x20	1650	0.032	10x25	2150	0.023
				10x12.5	935	0.064	10x16	1295	0.046						
680	8x14	900	0.062	8x16	1000	0.056	8x20	1250	0.041	10x20	1820	0.026	13x20	2360	0.021
				10x12.5	1030	0.053	10x16	1430	0.038						
820	8x16	1000	0.056	8x20	1130	0.050	10x20	1645	0.032	10x25	2150	0.023	13x25	2505	0.020
				10x16	1295	0.046									
1000	8x16	1030	0.053	8x20	1250	0.041	10x20	1820	0.026	13x20	2360	0.021	13x25	2770	0.018
				10x16	1430	0.038									
1200	8x20	1250	0.041	10x20	1820	0.026	10x25	2150	0.023	13x25	2505	0.020	13x30	3290	0.016
	10x16	1430	0.038										16x20	3140	0.018
1500	10x20	1820	0.026	10x25	2150	0.023	13x20	2360	0.021	13x25	2770	0.018	13x36	3400	0.015
1800	10x25	1940	0.025	13x20	2230	0.022	13x25	2505	0.020	13x30	3290	0.016	16x25	3460	0.016
										16x20	3140	0.018			
2200	10x25	2150	0.023	13x20	2360	0.021	13x25	2770	0.018	13x36	3400	0.015			
2700	13x20	2230	0.022	13x25	2505	0.020	13x30	3290	0.016	16x25	3460	0.016			
							16x20	3140	0.018						
3300	13x20	2360	0.021	13x25	2770	0.018	13x36	3400	0.015						
3900	13x25	2770	0.018	13x30	3290	0.016	16x25	3460	0.016						
				16x20	3140	0.018									
4700	13x30	3290	0.016	13x36	3400	0.015									
5600	13x36	3400	0.015	16x25	3460	0.016									
	16x20	3140	0.018												
6800	16x25	3460	0.016												

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(Continued) CASE SIZE (ØDxL(mm)) & MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 100KHz,105℃ & MAX IMPEDANCE (Z(Ω) / 100KHz, 20℃)

WV	50			63			100		
SPEC / μF	ØDxL	RC	Z	ØDxL	RC	Z	ØDxL	RC	Z
6.8	4x7	130	0.10						
10	5x7	210	0.50						
15	6.3x7	220	0.38	5x11	165	0.88	6.3x 11	210	0.57
	5x11	215	0.48						
22	6.3x7	300	0.26	6.3x11	220	0.65	8x11	325	0.44
	5x11	240	0.34						
27	8x7	340	0.21	6.3x11	240	0.43	8x11	360	0.36
33	8x7	380	0.17	6.3x11	270	0.35	8x14	376	0.30
39	6.3x11	325	0.16	8x11	385	0.31	8x16	450	0.25
47	6.3x11	355	0.15	8x11	420	0.26	10x15	450	0.24
56	6.3x11	390	0.14	8x11	500	0.22	8x20	570	0.19
68	8x11	600	0.11	8x16	610	0.19	10x16	580	0.18
				10x12.5	625	0.18			
82	8x11	660	0.090	8x16	670	0.16	10x20	750	0.13
				10x12.5	690	0.15	13x16	735	0.13
100	8x11	730	0.074	10x15	800	0.12	10x25	880	0.12
120	8x16	950	0.065	8x20	820	0.12	13x20	1050	0.094
				10x16	950	0.11			
150	10x12.5	980	0.061	10x20	1005	0.096	13x25	1095	0.085
				13x16	1040	0.098			
180	8x20	1190	0.046	10x20	1100	0.080	13x25	1200	0.071
				13x16	1140	0.082			
220	10x16	1370	0.042	10x25	1300	0.073	13x30	1410	0.063
							16x20	1300	0.071
270	10x20	1580	0.030	13x20	1500	0.060	13x36	1560	0.052
							16x25	1600	0.053
							18x20	1470	0.069
330	10x25	1870	0.028	13x25	1850	0.043	13x40	1700	0.046
390	13x20	1870	0.028	13x30	2050	0.047	16x32	1750	0.041
				16x20	1810	0.054	18x25	1620	0.049
470	13x20	2050	0.027	13x30	2250	0.039	16x36	1890	0.033
				16x20	1990	0.045	18x32	1775	0.039
560	13x25	2410	0.023	13x36	2450	0.035	16x40	2080	0.030
				16x25	2550	0.032	18x36	2060	0.031
680	13x30	2860	0.021	13x40	2780	0.029	18x40	2570	0.028
				18x20	2450	0.038			
820	13x30	2960	0.019	16x32	2810	0.026			
	16x20	2730	0.023	18x25	2780	0.031			
1000	16x32	3350	0.021	16x36	2840	0.021			
				16x32	3270	0.025			
1200				16x40	3340	0.019			
				18x36	3310	0.020			
1500				18x40	3420	0.018			

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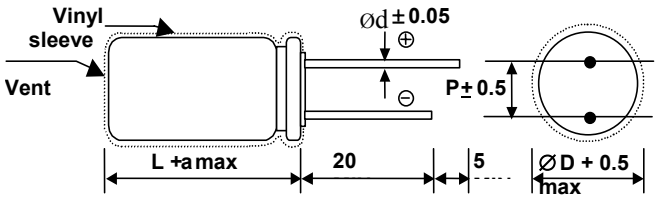
Dimensions:



∅D	4	5	6.3	8	10	13	16	18
P	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
∅d	0.45	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0

Multiplier for Ripple Current:

Frequency Coefficient

Freq. (Hz) / Cap (μ F)	50	120	1K	10K	100K
10~390	0.60	0.70	0.85	0.95	1.00
470~1000	0.65	0.75	0.90	0.98	1.00
1200~6800	0.75	0.80	0.95	1.00	1.00

Temperature coefficient

Ambient Temperature (℃)	≤65	85	105
Coefficient	2.0	1.5	1.00

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