

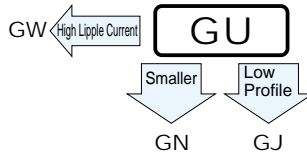
ALUMINUM ELECTROLYTIC CAPACITORS



GU series Snap-in Terminal Type, 105°C Standard



- Withstanding 3000 hours application of rated ripple current at 105°C.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics	
Category Temperature Range	- 40 to + 105°C (16 to 250V) , - 25 to +105°C (315 to 450V)	
Rated Voltage Range	16 to 450V	
Rated Capacitance Range	47 to 47000μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	$I \leq 3\sqrt{CV}(\mu A)$ (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]	
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C	
	Rated voltage(V)	16 25 35 50 63 80·100 160 to 420 450
Stability at Low Temperature	Measurement frequency : 120Hz	
	Rated voltage (V)	
	Impedance ratio ZT/Z20 (MAX.)	Z - 25°C/Z+20°C 16 to 100 160 to 250 315 to 450 Z - 40°C/Z+20°C 4 3 8 20 12 —
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	
	Capacitance change	tan δ
	Leakage current	Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right.	
	Capacitance change	tan δ
	Leakage current	Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.	

Drawing



※ The other terminal is also available upon request. Please refer page 328 for schematic of dimensions.

Type numbering system (Example : 200V 680μF)



Frequency coefficient of rated ripple current

Coeff.	Frequency (Hz)	50	60	120	300	1k	10k	50k or more
	16 to 100V	0.88	0.90	1.00	1.07	1.15	1.15	1.15
160 to 250V	0.81	0.85	1.00	1.17	1.32	1.45	1.50	
315 to 450V	0.77	0.82	1.00	1.16	1.30	1.41	1.43	

Minimum order quantity : 50pcs.

● Dimension table in next page.

■Dimensions

16V (1C)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
6800	22 × 25	1750	0.98	LGU1C682MELZ
8200	22 × 30	2000	1.08	LGU1C822MELZ
10000	22 × 30	2100	1.20	LGU1C103MELZ
	25 × 25	2050	1.20	LGU1C103MELA
12000	22 × 35	2310	1.31	LGU1C123MELZ
	25 × 30	2300	1.31	LGU1C123MELA
	30 × 25	2380	1.31	LGU1C123MELB
15000	22 × 40	2680	1.46	LGU1C153MELZ
	25 × 35	2680	1.46	LGU1C153MELA
	30 × 30	2570	1.46	LGU1C153MELB
18000	22 × 45	2980	1.60	LGU1C183MELZ
	25 × 40	3160	1.60	LGU1C183MELA
	30 × 30	3000	1.60	LGU1C183MELB
22000	25 × 45	3400	1.77	LGU1C223MELA
	30 × 35	3390	1.77	LGU1C223MELB
	35 × 30	3250	1.77	LGU1C223MELC
27000	25 × 50	3850	1.97	LGU1C273MELA
	30 × 40	3830	1.97	LGU1C273MELB
	35 × 30	3740	1.97	LGU1C273MELC
33000	30 × 45	4300	2.17	LGU1C333MELB
	35 × 35	4270	2.17	LGU1C333MELC
39000	30 × 50	4810	2.36	LGU1C393MELB
	35 × 40	4800	2.36	LGU1C393MELC
47000	35 × 45	5530	2.60	LGU1C473MELC

25V (1E)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
4700	22 × 25	1610	1.02	LGU1E472MELZ
5600	22 × 30	1800	1.12	LGU1E562MELZ
6800	22 × 30	1910	1.23	LGU1E682MELZ
	25 × 25	1910	1.23	LGU1E682MELA
8200	22 × 35	2140	1.35	LGU1E822MELZ
	25 × 30	2340	1.35	LGU1E822MELA
	30 × 25	2250	1.35	LGU1E822MELB
10000	22 × 40	2650	1.50	LGU1E103MELZ
	25 × 35	2610	1.50	LGU1E103MELA
	30 × 30	2610	1.50	LGU1E103MELB
12000	22 × 45	2690	1.64	LGU1E123MELZ
	25 × 40	2810	1.64	LGU1E123MELA
	30 × 30	2740	1.64	LGU1E123MELB
15000	25 × 45	3270	1.83	LGU1E153MELA
	30 × 35	3130	1.83	LGU1E153MELB
	35 × 30	3260	1.83	LGU1E153MELC
18000	25 × 50	3540	2.01	LGU1E183MELA
	30 × 40	3560	2.01	LGU1E183MELB
	35 × 35	3840	2.01	LGU1E183MELC
22000	30 × 45	4240	2.22	LGU1E223MELB
	35 × 35	3960	2.22	LGU1E223MELC
27000	35 × 45	4750	2.46	LGU1E273MELC
33000	35 × 50	5500	2.72	LGU1E333MELC

35V (1V)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
3300	22 × 25	1450	1.01	LGU1V332MELZ
3900	22 × 30	1690	1.10	LGU1V392MELZ
4700	22 × 35	2020	1.21	LGU1V472MELZ
	25 × 25	1780	1.21	LGU1V472MELA
5600	22 × 35	2130	1.32	LGU1V562MELZ
	25 × 30	2040	1.32	LGU1V562MELA
	30 × 25	2120	1.32	LGU1V562MELB
6800	22 × 40	2410	1.46	LGU1V682MELZ
	25 × 35	2310	1.46	LGU1V682MELA
	30 × 25	2310	1.46	LGU1V682MELB
8200	22 × 50	2850	1.60	LGU1V822MELZ
	25 × 40	2730	1.60	LGU1V822MELA
	30 × 30	2750	1.60	LGU1V822MELB
10000	25 × 45	3050	1.77	LGU1V103MELA
	30 × 35	3050	1.77	LGU1V103MELB
	25 × 50	3370	1.94	LGU1V123MELA
12000	30 × 40	3280	1.94	LGU1V123MELB
	35 × 30	3200	1.94	LGU1V123MELC
	30 × 45	3740	2.17	LGU1V153MELB
15000	35 × 35	3690	2.17	LGU1V153MELC
	35 × 40	4370	2.38	LGU1V183MELC
22000	35 × 50	4920	2.63	LGU1V223MELC

50V (1H)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
1800	22 × 25	1340	0.90	LGU1H182MELZ
	22 × 30	1700	1.10	LGU1H272MELZ
2700	25 × 25	1700	1.10	LGU1H272MELA
	22 × 35	1980	1.21	LGU1H332MELZ
3300	25 × 30	2000	1.21	LGU1H332MELA
	22 × 40	2250	1.32	LGU1H392MELZ
3900	25 × 30	2280	1.32	LGU1H392MELA
	30 × 25	2220	1.32	LGU1H392MELB
	22 × 45	2560	1.45	LGU1H472MELZ
4700	25 × 35	2610	1.45	LGU1H472MELA
	30 × 30	2580	1.45	LGU1H472MELB
	22 × 50	2890	1.58	LGU1H562MELZ
5600	25 × 40	2810	1.58	LGU1H562MELA
	30 × 30	2950	1.58	LGU1H562MELB
	25 × 45	3370	1.74	LGU1H682MELA
6800	30 × 35	3390	1.74	LGU1H682MELB
	35 × 30	3310	1.74	LGU1H682MELC
	30 × 40	3710	1.92	LGU1H822MELB
8200	35 × 35	3660	1.92	LGU1H822MELC
	30 × 50	4090	2.12	LGU1H103MELB
10000	35 × 40	4070	2.12	LGU1H103MELC
	35 × 45	4560	2.32	LGU1H123MELC
12000	35 × 50	4770	2.59	LGU1H153MELC

Rated ripple current (mArms) at 105°C 120Hz



■Dimensions

63V (1J)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
1200	22 × 25	1250	0.82	LGU1J122MELZ
	22 × 30	1470	0.92	LGU1J152MELZ
1500	25 × 25	1440	0.92	LGU1J152MELA
	22 × 30	1580	1.01	LGU1J182MELZ
1800	25 × 25	1520	1.01	LGU1J182MELA
	22 × 35	1820	1.11	LGU1J222MELZ
2200	25 × 30	1750	1.11	LGU1J222MELA
	22 × 40	2070	1.23	LGU1J272MELZ
2700	25 × 35	2110	1.23	LGU1J272MELA
	30 × 25	1930	1.23	LGU1J272MELB
	22 × 45	2330	1.36	LGU1J332MELZ
3300	25 × 35	2270	1.36	LGU1J332MELA
	30 × 30	2240	1.36	LGU1J332MELB
	25 × 40	2540	1.48	LGU1J392MELA
3900	30 × 35	2550	1.48	LGU1J392MELB
	25 × 50	2970	1.63	LGU1J472MELA
4700	30 × 40	2900	1.63	LGU1J472MELB
	35 × 30	2830	1.63	LGU1J472MELC
	30 × 40	3280	1.78	LGU1J562MELB
5600	35 × 35	3240	1.78	LGU1J562MELC
	30 × 50	3730	1.96	LGU1J682MELB
6800	35 × 40	3710	1.96	LGU1J682MELC
8200	35 × 45	4160	2.15	LGU1J822MELC
10000	35 × 50	4690	2.38	LGU1J103MELC

80V (1K)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
820	22 × 25	1110	0.76	LGU1K821MELZ
1000	22 × 25	1290	0.84	LGU1K102MELZ
1200	22 × 30	1440	0.92	LGU1K122MELZ
	25 × 25	1390	0.92	LGU1K122MELA
1500	22 × 30	1610	1.03	LGU1K152MELZ
	25 × 25	1620	1.03	LGU1K152MELA
1800	22 × 35	1830	1.13	LGU1K182MELZ
	25 × 30	1860	1.13	LGU1K182MELA
	30 × 25	1810	1.13	LGU1K182MELB
2200	22 × 40	2090	1.25	LGU1K222MELZ
	25 × 35	2010	1.25	LGU1K222MELA
2700	30 × 25	2100	1.25	LGU1K222MELB
	25 × 40	2430	1.39	LGU1K272MELA
	30 × 30	2430	1.39	LGU1K272MELB
3300	25 × 45	2760	1.54	LGU1K332MELA
	30 × 35	2780	1.54	LGU1K332MELB
	35 × 30	2710	1.54	LGU1K332MELC
3900	25 × 50	2920	1.67	LGU1K392MELA
	30 × 40	3120	1.67	LGU1K392MELB
	35 × 30	3070	1.67	LGU1K392MELC
4700	30 × 45	3520	1.83	LGU1K472MELB
	35 × 35	3500	1.83	LGU1K472MELC
5600	30 × 50	3800	2.00	LGU1K562MELB
	35 × 40	3870	2.00	LGU1K562MELC
6800	35 × 45	4190	2.21	LGU1K682MELC

100V (2A)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
560	22 × 25	1070	0.70	LGU2A561MELZ
820	22 × 30	1350	0.85	LGU2A821MELZ
	25 × 25	1350	0.85	LGU2A821MELA
1000	22 × 30	1540	0.94	LGU2A102MELZ
	25 × 30	1560	0.94	LGU2A102MELA
1200	22 × 40	1740	1.03	LGU2A122MELZ
	25 × 30	1760	1.03	LGU2A122MELA
	30 × 25	1710	1.03	LGU2A122MELB
1500	22 × 45	1990	1.16	LGU2A152MELZ
	25 × 35	2030	1.16	LGU2A152MELA
	30 × 30	2000	1.16	LGU2A152MELB
1800	25 × 40	2280	1.27	LGU2A182MELA
	30 × 35	2270	1.27	LGU2A182MELB
2200	25 × 50	2570	1.40	LGU2A222MELA
	30 × 35	2590	1.40	LGU2A222MELB
	35 × 30	2520	1.40	LGU2A222MELC
2700	30 × 45	2940	1.55	LGU2A272MELB
	35 × 35	2900	1.55	LGU2A272MELC
3300	30 × 50	3320	1.72	LGU2A332MELB
	35 × 40	3310	1.72	LGU2A332MELC
3900	35 × 45	3690	1.87	LGU2A392MELC
4700	35 × 50	4140	2.05	LGU2A472MELC

160V (2C)				
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
270	20 × 25	1100	0.62	LGU2C271MELY
330	20 × 30	1200	0.68	LGU2C331MELY
390	20 × 30	1300	0.74	LGU2C391MELY
	22 × 25	1300	0.74	LGU2C391MELZ
470	20 × 35	1340	0.82	LGU2C471MELY
	22 × 30	1550	0.82	LGU2C471MELZ
	25 × 25	1550	0.82	LGU2C471MELA
560	20 × 40	1500	0.89	LGU2C561MELY
	22 × 35	1670	0.89	LGU2C561MELZ
	25 × 30	1670	0.89	LGU2C561MELA
	30 × 25	1670	0.89	LGU2C561MELB
680	20 × 45	1700	0.98	LGU2C681MELY
	22 × 40	1820	0.98	LGU2C681MELZ
	25 × 30	1820	0.98	LGU2C681MELA
820	30 × 25	1820	0.98	LGU2C681MELB
	22 × 45	2040	1.08	LGU2C821MELZ
	25 × 35	2040	1.08	LGU2C821MELA
1000	30 × 30	2040	1.08	LGU2C821MELB
	35 × 25	2040	1.08	LGU2C821MELC
	22 × 50	2250	1.20	LGU2C102MELZ
	25 × 40	2250	1.20	LGU2C102MELA
1200	30 × 30	2250	1.20	LGU2C102MELB
	35 × 25	2250	1.20	LGU2C102MELC
	25 × 45	2490	1.31	LGU2C122MELA
1500	30 × 35	2490	1.31	LGU2C122MELB
	35 × 30	2490	1.31	LGU2C122MELC
1800	30 × 40	2840	1.46	LGU2C152MELB
	35 × 30	2840	1.46	LGU2C152MELC
2200	30 × 45	3320	1.60	LGU2C182MELB
	35 × 35	3000	1.60	LGU2C182MELC
2700	35 × 45	3500	1.77	LGU2C222MELC
4700	35 × 50	4000	1.97	LGU2C272MELC

Rated ripple current (mArms) at 105°C 120Hz

