ALUMINUM ELECTROLYTIC CAPACITORS
LSG Series: Snap-in Terminal Type, 105°C

RoHS

FEATURES

- Has a snap-in terminal which can solder to a PCB directly and need not fixture to save processing time.
- Suitable for electronic equipment with medium-high voltage circuits.
- Printed circuit board terminal snap-in type and lug terminal type available.

SPECIFICATIONS

Item	Performance												
Operating Temperature Range	-40°C ~ +105°C												
Capacitance Tolerance	± 20% (120Hz, 20°C)												
Leakage Current (at 20°C)	I = 0.02CV (μA after 2 minutes) Where, C = rated capacitance in μF. V=rated DC working voltage in V.												
Dissipaton Factor (Tanδ)	Rated Voltage	16	25	35	50	63	100	160	200	250	350	400	450
	Tan δ (max)	0.40	0.30	0.25	0.20	0.15	0.15	0.10*	0.10*	0.10*	0.15*	0.15	0.15
	0.15 for D = 35mm												

Low Temperature Characteristics (at 120Hz)	Rated Voltage		16	25	35	50	63	100	160	200	250	350	400	450
	Impedance Ratio	Z(-25°C)/Z(=20°C)	4	3	3	2	2	2	4	4	4	4	8	8
		Z(-40°C)/Z(=20°C)	15	10	8	6	6	5	4	8	10	16	18	20
	Impedance ratio shall not exceed the vaues given in the table above													

Load Life Test (after application of the rated voltage at 85°C/105°C, the polarity inverted every 250 hours.)		
	Test Time	2000 Hrs
	Capacitance Change	Within ± 20% of initial value
	Dissipation Factor	Less than 200% of specifiec value
	Leakage Current	Within specified values
	The above specification shall be satisfied when the capacitors are restored to 20°C after rated voltage applied for 2000 hrs at 85°C/105°C	

Shelf Life Test		
	Test Time	1000 Hrs
	Capacitance Change	Within ± 20% of initial value
	Dissipation Factor	Less than 200% of specifiec value
	Leakage Current	Within specified values
	The above specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hrs at 85°C/105°C without voltage applied.	

Ripple Current & Frequency Multipliers	Freq.(Hz) / W.V.(V)	60	120	500	1K	10K up
	Under 100	0.92	1.00	1.13	1.19	1.20
	160 ~ 250	0.81	1.00	1.32	1.45	1.50
	350 and up	0.77	1.00	1.30	1.41	1.43

Ripple Current & Temperature Multipliers	Temperature (°C)	55	70	85	105
	Multiplier	2.1	1.8	1.5	1.0

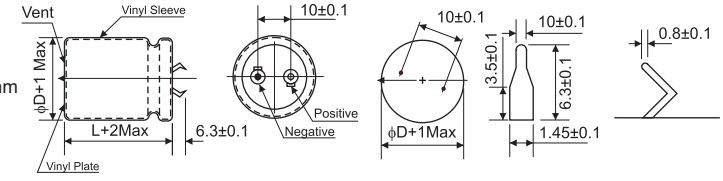
Standards	Satisfies Characteristic W of JIS C 5141

PART NUMBER EXAMPLE

LSG 101 M 2G 220 300 ____

- Blank 6.3mm Terminal / A = 4mm Terminal
- Case Size (Diameter X Length)mm
- Rate Voltage (400V)
- Capacitance tolerance (±20%)
- Capacitance (100μF)
- Series name

SNAP-IN TERMINAL TYPE



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DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: ΦDxL (mm); Ripple Current: A/RMS at 120Hz, 85°C

V.D.C. / μ_F	Φ_D	16V (1C)								25V (1E)								35V (1V)							
		22		25		30		35		22		25		30		35		22		25		30		35	
4700	472									22 x 25	1.50									25 x 25	1.80				
5600	562									22 x 25	1.72							22 x 35	1.95	25 x 60	1.96	30 x 25	2		
6800	682	22 x 25	1.57							22 x 30	1.86	25 x 25	1.87					22 x 40	2.20	25 x 35	2.23				
8200	822	22 x 25	1.94							22 x 35	2.11	25 x 30	2.12	30 x 25	2.15			22 x 50	2.55	25 x 40	2.53	30 x 30	2.75	35 x 25	2.75
10000	103	22 x 30	1.94	25 x 30	2.12					22 x 40	2.39	25 x 35	2.42							25 x 45	2.87	30 x 35	2.90		
12000	123	22 x 35	2.22	25 x 30	2.24	30 x 25	2.45			22 x 45	2.69	25 x 40	2.74	30 x 30	2.78	35 x 25	2.74			25 x 50	3.24	30 x 40	3.23	35 x 25	2.69
																								35 x 30	2.99
15000	153	22 x 40	2.55	25 x 35	2.58							25 x 45	3.15	30 x 35	3.13	35 x 30	3.27					30 x 45	3.72	35 x 25	3.12
																								35 x 35	3.67
18000	183	22 x 45	2.87	25 x 40	2.92	30 x 30	2.88	35 x 25	2.92			25 x 50	3.54	30 x 40	3.54									35 x 35	4.02
																								35 x 40	4.37
22000	223			25 x 45	3.32	30 x 35	2.29							30 x 45	4.04	35 x 35	3.64					30 x 50	4.71	35 x 40	4.69
																								35 x 50	4.92

V.D.C. / μ_F	Φ_D	50V (1H0)								63V (1J)								100V (2A)							
		22		25		30		35		22		25		30		35		22		25		30		35	
1200	122									22 x 25	1.19							22 x 40	1.69	25 x 35	1.71	30 x 25	1.68		
1500	152																	22 x 45	1.94	25 x 40	1.98	30 x 30	1.95	35 x 25	1.98
1800	182	22 x 25	1.33							22 x 25	1.30	25 x 25	1.52							25 x 45	2.23	60 x 35	2.50		
										22 x 30	1.51														
2200	222	22 x 25	1.48							22 x 35	1.73	25 x 25	1.55							25 x 50	2.53	30 x 40	2.70	35 x 30	2.50
												25 x 30	1.74												
2700	272	22 x 30	1.69	25 x 25	1.70					22 x 40	1.97	25 x 35	1.99	30 x 25	1.76							30 x 45	2.88	35 x 35	2.86
3300	323	22 x 35	1.93	25 x 35	1.85					22 x 50	2.29	25 x 40	2.27	30 x 25	2.00	35 x 25	2.06					30 x 50	3.28	35 x 40	3.27
														30 x 30	2.24										
3900	392	22 x 40	2.16	25 x 35	2.18	30 x 25	1.95					25 x 45	2.54	30 x 25	2.18									35 x 45	3.67
														30 x 35	2.55										
4700	472	22 x 45	2.43			30 x 30	2.25	35 x 25	2.48			25 x 50	2.86	30 x 30	2.48	35 x 30	2.79							35 x 50	3.67
														30 x 40	2.86										
5600	562	22 x 50	2.75	25 x 40	2.70	30 x 35	2.76							30 x 35	2.78	35 x 35	3.19							35 x 50	3.80
														30 x 45	3.22										
6800	682			25 x 50	3.30	30 x 40	3.30	35 x 30	3.25					30 x 50	3.65	35 x 40	3.64								
8200	822					30 x 45	3.60	35 x 35	3.55							35 x 46	3.90								
10000	103					30 x 50	4.04	35 x 40	4.03							35 x 50	4.00								
12000	123							35 x 45	4.55																

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DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: ΦDxL (mm); Ripple Current: A/RMS at 120Hz, 85°C

V.D.C. / μF	ΦD	160V (2C)								200V (2D)								250V (2E)							
		22		25		30		35		22		25		30		35		22		25		30		35	
180	181									22 x 25	0.80							22 x 30	0.85	25 x 25	0.85				
																		22 x 25	0.78						
220	221									22 x 25	0.89							22 x 30	0.82	25 x 25	0.90	30 x 25	1		
																		22 x 35	0.90	25 x 30	1.00				
270	271	22 x 25	0.86							22 x 30	1.00							22 x 40	1.14						
										22 x 25	0.87	25 x 25	1.00					22 x 35	1.00						
330	331	22 x 30	1.20							22 x 35	1.20	25 x 30	1.21					22 x 45	1.26	25 x 35	1.20	30 x 30	1.13		
		22 x 25	1.10							22 x 30	1.13	25 x 25	1.13					22 x 40	1.10	25 x 30	1.13				
390	391	22 x 35	1.30							22 x 40	1.31							22 x 50	1.49	25 x 40	1.49				
		22 x 30	1.22	25 x 25	1.15					22 x 35	1.25			30 x 25	1.20			22 x 45	1.25	25 x 35	1.27				
470	471	22 x 40	1.40	25 x 30	1.41					22 x 45	1.40	25 x 35	1.41	30 x 25	1.50			22 x 50	1.57	25 x 45	1.57	30 x 35	1.57	35 x 30	1.30
		22 x 35	1.35	25 x 25	1.33					22 x 40	1.32	25 x 30	1.32							25 x 40	1.38	30 x 30	1.37		
560	561	22 x 40	1.50	25 x 35	1.51					22 x 50	1.56	25 x 40	1.53	30 x 30	1.52					25 x 45	1.79	30 x 40	1.79	35 x 30	1.79
				25 x 30	1.45	30 x 25	1.40			22 x 45	1.53	25 x 35	1.50												
680	681	22 x 50	1.71	25 x 40	1.70	30 x 30	1.72			22 x 50	1.74	25 x 45	1.74	30 x 35	1.73	35 x 30	1.73			25 x 50	1.84	30 x 40	2.00		
		22 x 45	1.65	25 x 35	1.65	30 x 25	1.65					25 x 40	1.70			35 x 25	1.72							35 x 35	1.58
820	821	22 x 50	1.93	25 x 45	2.01	30 x 35	2.00	35 x 30	2.00			25 x 50	2.04	30 x 40	1.93	35 x 35	1.93					30 x 50	2.16	35 x 40	1.81
				25 x 40	1.85	30 x 30	1.76	35 x 25	1.91													30 x 50	1.85		
1000	102			25 x 45	2.20	30 x 40	2.22	35 x 35	2.20	22 x 50	2.30			30 x 50	2.30	35 x 40	2.30							35 x 45	2.00
						30 x 35	2.02	35 x 30	2.44					30 x 45	2.20	35 x 35	2.20								
1200	122			25 x 50	2.45	30 x 45	2.44	35 x 35	2.50					30 x 50	2.60	35 x 40	2.65							35 x 45	3.41
						30 x 40	2.35																		
1500	152					30 x 45		35 x 40	2.70							35 x 45	2.58								
																35 x 50	2.80								
1800	182					30 x 50	3.31	35 x 50	3.10							35 x 50	3.47								

V.D.C. / μF	ΦD	350 (2V)								400V (2G)								400V (2W)							
		22		25		30		35		22		25		30		35		22		25		30		35	
56	560																	22 x 25	0.40						
68	680	22 x 25	0.51							22 x 30	0.51							22 x 30	0.50	25 x 25	0.50				
										22 x 25	0.50														
82	820	22 x 25	0.56							22 x 30	0.58	25 x 25	0.64					22 x 35	0.56						
100	101	22 x 30	0.69	25 x 25	0.69					22 x 35	0.61	25 x 30	0.64					22 x 40	0.64	25 x 30	0.57	30 x 25	0.64		
120	121	22 x 35	0.75							22 x 40	0.72	25 x 35	0.72	30 x 25	0.76			22 x 45	0.72	25 x 35	0.71				
										22 x 35	0.67	25 x 30	0.69												
150	151	22 x 40	0.82	25 x 30	0.83	30 x 25	0.83			22 x 50	0.82	25 x 40	0.84	30 x 30	0.76	35 x 30	0.76	22 x 50	0.79	25 x 40	0.75	30 x 30	0.74	35 x 25	0.75
										22 x 40	0.77	25 x 35	0.78												
180	181	22 x 45	0.92	25 x 35	0.92	30 x 30	0.92					25 x 40	0.83	30 x 30	0.82	35 x 25	0.90			25 x 45	0.84	30 x 35	0.87		
												25 x 50	1.07	30 x 40	1.06	35 x 30	1.08								
220	221	25 x 50	1.05	25 x 40	1.04	30 x 30	1.02	35 x 25	1.04			25 x 45	0.93	30 x 35	0.91					25 x 50	0.98	30 x 40	0.98	35 x 30	1.00
												25 x 50	1.21	30 x 45	1.21	35 x 35	1.12								
270	271			25 x 50	1.18	30 x 35	1.17	35 x 30	1.20					30 x 40	1.10							30 x 45	1.15	35 x 35	1.17
				25 x 40	1.00									30 x 45	1.39	35 x 40	1.25								
330	331					30 x 45	1.34															30 x 50	1.38	35 x 45	1.70
						30 x 40	1.15	35 x 35	1.15					30 x 50	1.55	35 x 45	1.55							35 x 35	1.47
390	391					30 x 50	1.51	35 x 40	1.47															35 x 50	1.94
						30 x 45	1.25	35 x 35	1.25																
470	471							35 x 45	1.69							35 x 50	1.72							35 x 45	1.94
								35 x 40	1.34															35 x 50	2.13
560	561							35 x 40	1.90															35 x 50	2.22
								35 x 45	1.51																