



aluminum electrolytic capacitor

all products Made in Taiwan

location: Home > product > GRD/ GRDL

category

back to list

GRD/ GRDL

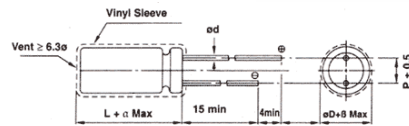
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Series	Application	Features	Voltage Range (VDC)	Capacitance Range (µF)	Temperature Range	Load life (HRS)
GRD/ GRDL	For General use	<ul style="list-style-type: none"> Standard Compact size 	6.3 - 100	0.1 - 22000	-40 to 85	1000/ 2000

Features

- Standard low voltage general purpose use.
- Compact size
- Low cost

Diagram Of Dimensions



Lead Spacing and Diameter

	Unit: mm							
φD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.5
φd	0.5		0.6		0.8		1.0	
α	1.0		1.0 for L ≤ 16, 2.0 for L > 20					
β	0.5				1.0			

Specifications

Items	Performance	
	GRD	GRDL
Life	At 85°C 1000 Hrs	At 85°C 2000 Hrs
Operating Temperature Range	-40°C ~ +85°C	
Capacitance Tolerance	±20% (at 20°C, 120 Hz)	
Leakage Current	I = 0.01 CV or 3(µA) whichever is greater. (At 20°C after 2 minutes). Where, C-rated capacitance in µF. F-rated DC working voltage in V.	
Dissipation Factor (Tan δ, At 20°C, 120Hz)	Rated Voltage	0.3 10 16 25 35 50 63 100
	Tan δ	0.25 0.20 0.17 0.16 0.13 0.11 0.10 0.08
Temperature Characteristics	Rated Voltage	6.3 10 16 25 35 50 63 100
	Impedance Ratio	±20% / ±D=16 5 4 3 3 2 2 2 2 ±20% / ±D=16 10 8 6 6 4 3 3 3 ±20% / ±D=16 16 16 12 10 8 8 6 6
Life Test (after application of the rated voltage at 85°C)	Test Time	1000 Hrs 2000 Hrs
	Test Item	Leakage Current, Dissipation Factor, Capacitance Change
Ripple Current & Frequency Multipliers	Temp. (Hz)	60(50) 120 500 1K 10K(NP)
	Cap. (µF)	under 100 100 to 1000 1000 and up
Ripple Current & Temperature Multipliers	Temperature(°C)	under 50 70 85
	Multiplier	1.78 1.40 1.0
Standards	Satisfies Characteristic W of JIS-C-5141	

Dimensions and Permissible Ripple Current

Dimension: ØDxL(mm)

Ripple Current: mA/RMS at 120 Hz 85°C

µF	W.V code (SV)	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		100 (125)		
		ØDXL	mA	ØDXL	mA	ØDXL	mA	ØDXL	mA	ØDXL	mA	ØDXL	mA	ØDXL	mA	ØDXL	mA	
0.1	OR1											5 x 11	1.5	5 x 11	3.0	5 x 11	3.0	
0.22	R22											5 x 11	3.5	5 x 11	4.5	5 x 11	4.5	
0.33	R33											5 x 11	5.0	5 x 11	7.5	5 x 11	7.5	
0.47	R47											5 x 11	6.0	5 x 11	9.0	5 x 11	9.0	
1	O10											5 x 11	10	5 x 11	15	5 x 11	15	
2.2	2R2											5 x 11	20	5 x 11	30	5 x 11	30	
3.3	3R3											5 x 11	30	5 x 11	38	5 x 11	38	
4.7	4R7											5 x 11	41	5 x 11	43	5 x 11	46	
10	100										5 x 11	54	5 x 11	60	5 x 11	63	6.3 x 11	71
22	220					5 x 11	70	5 x 11	75	5 x 11	81	5 x 11	95	6.3 x 11	100	8 x 12.5	123	
33	330					5 x 11	86	5 x 11	92	5 x 11	106	6.3 x 11	116	6.3 x 11	143	10 x 12.5	170	
47	470			5 x 11	92	5 x 11	102	5 x 11	110	5 x 11	126	6.3 x 11	162	6.3 x 11	170	10 x 16	224	
100	101	5 x 11	125	5 x 11	134	5 x 11	160	6.3 x 11	171	6.3 x 11	215	8 x 11.5	236	10 x 12.5	297	10 x 20	342	
220	221	6.3 x 11	198	6.3 x 11	212	6.3 x 11	277	8 x 11.5	319	10 x 12.5	381	10 x 16	434	10 x 16	479	13 x 25	554	
330	331	6.3 x 11	383	8 x 11.5	303	8 x 11.5	339	10 x 12.5	449	10 x 16	508	10 x 20	570	13 x 21	669	16 x 26	787	
470	471	8 x 11.5	337	8 x 11.5	362	8 x 12.5	482	10 x 12.5	536	10 x 16	606	13 x 21	724	13 x 21	829	16 x 31	942	
1000	102	8 x 14.5	508	10 x 12.5	630	10 x 16	731	10 x 20	866	13 x 21	948	13 x 25	1112	16 x 26	1162	18 x 40	1345	
2200	222	10 x 20	919	10 x 20	1041	13 x 21	1115	13 x 21	1334	16 x 26	1440	16 x 36	1689	18 x 41	1820			
3300	332	10 x 20	1139	13 x 21	1278	13 x 25	1444	16 x 26	1600	16 x 36	1692	18 x 36	2006	22 x 41	2230			
4700	472	13 x 21	1437	13 x 25	1541	16 x 26	1639	16 x 31	1870	18 x 36	2185	22 x 41	2231	25 x 41	2650			
10000	103	16 x 26	1994	16 x 36	2337	18 x 36	2478	18 x 41	2700									
22000	223	18 x 41	3066															

