



Aluminum Electrolytic Capacitor

Type EGR

Δ Features

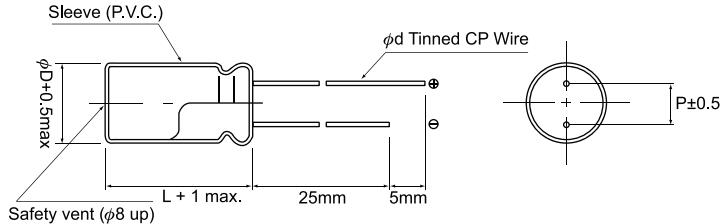
- Radial Leads, 85°C Standard Series
- Guaranteed long life (2,000 hours at 85° C)

Δ Applications

- Suitable for consumer electronics equipment.



Δ Dimensions



	5	6.3	8	10	13	16	18	20	22	25
φD	2	2.5	3.5	5	5	7.5	7.5	10	10	12.5
φd		0.5		0.6		0.8			1	
~100WV		1.0		1.5		1.5		2		2
~160WV~		1.5		2		2		2		2

Δ Specifications

Item	Performance Characteristics										
Operating Temperature Range	-40 + 85°C										
Rated Voltage	6.3V ~100V										
Capacitance Range	0.1 ~22,000 μF										
Capacitance Tolerance	±20% (120Hz, 20°C)										
Leakage Current	0.02CV or 4 μA, whichever is greater after 2 minutes application of rated voltage.				.03CV + 10 μA, whichever is greater after 2 minutes application of rated voltage.						
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350~450
	Tan δ (max.)	0.24	0.2	0.17	0.15	0.12	0.1	0.1	0.1	0.2	0.25
	For capacitance of more than 1,000μF, add 0.02 for every increase of 1,000μF.										
Temperature Characteristics (120Hz)	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160~200	250~350
	Z (-25°C) / Z (20°C)	5	4	3	2	2	2	2	2	3	4
	Z (-40°C) / Z (20°C)	12	10	8	5	4	3	3	3	4	6
	Impedance Ratio / Stability at Low Temperature										
Load Life	After 2,000 hours application of WV at 85°C, capacitor shall meet the characteristics requirements mentioned below.										
	Capacitance change	Within ±20% of initial value									
	Tan δ	200% or less of initial specified value									
	Leakage current	Initial specified value or less									
Shelf Life	After leaving capacitors under no load at 85°C for 1,000 hours and applying voltage according to JIS C5102 and C5141, they shall meet the specified value as load life characteristics listed above.										

NOTE: Part Numbering System

(1) (2) (3) (4)
EGR 106 M 1H

- 1 Series
- 2 Capacitance
- 3 Tolerance
- 4 Working Voltage



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Δ Dimensions

Dφ x L (mm)

WV(SV) Cap (μF) \	6.3 (8)	10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (75)		
0.1										5 x 11	1.3			
0.22										5 x 11	2.9			
0.33										5 x 11	4.3			
0.47										5 x 11	6.2			
1										5 x 11	17			
2.2										5 x 11	28			
3.3										5 x 11	35			
4.7										5 x 11	40			
10				5 x 11	50	5 x 11	55	5 x 11	60	5 x 11	60	5 x 11	65	
22	5 x 11	65	5 x 11	65	5 x 11	75	5 x 11	80	5 x 11	90	5 x 11	95	5 x 11	100
33	5 x 11	80	5 x 11	85	5 x 11	90	5 x 11	95	5 x 11	105	5 x 11	125	6.3 x 11	140
47	5 x 11	95	5 x 11	100	5 x 11	110	5 x 11	115	6.3 x 11	145	8 x 11	175	8 x 11	185
								5 x 11	130	6.3 x 11	155	6.3 x 11	170	
100	5 x 11	135	5 x 11	145	6.3 x 11	170	6.3 x 11	190	6.3 x 11	210	8 x 11	260	10 x 12	300
					5 x 11	160	5 x 11	180				8 x 11	280	
220	5 x 11	200	6.3 x 11	240	6.3 x 11	260	8 x 11	330	10 x 12	385	10 x 12	430	10 x 16	490
			5 x 11	220			6.3 x 11	280	8 x 11	350	10 x 16	450		
330	6.3 x 11	270	6.3 x 11	290	8 x 11	370	10 x 12	440	10 x 12	490	10 x 16	590	10 x 20	710
	5 x 11	230			6.3 x 11	320	8 x 11	390			10 x 20	620		
470	6.3 x 11	320	6.3 x 11	350	8 x 11	440	10 x 12	550	10 x 16	650	13 x 20	760	13 x 20	900
			8 x 11	400			10 x 16	580			10 x 20	760		
1000	8 x 11	540	10 x 12	650	10 x 16	790	10 x 20	960	13 x 20	1150	13 x 25	1350	16 x 32	1400
			8 x 14	660	10 x 12	700	10 x 16	860	10 x 25	1100	16 x 25	1450	16 x 25	1300
2200	10 x 20	1000	10 x 20	1100	13 x 20	1300	13 x 25	1550	16 x 25	1800	16 x 36	2100	18 x 36	2300
	10 x 16	890	10 x 16	990	10 x 20	1000	16 x 25	1700	16 x 32	1910	16 x 32	1980	22 x 36	2550
3300	10 x 20	1190	13 x 20	1450	13 x 25	1700	16 x 25	1980	16 x 36	2280	18 x 36	2500	20 x 40	2700
					13 x 20	1550	13 x 25	1800	16 x 32	2100	22 x 30	2450	25 x 30	2600
4700	13 x 20	1550	13 x 25	1800	16 x 25	2100	16 x 32	2450	18 x 36	2700	20 x 40	2900	22 x 50	3400
					13 x 25	1850	16 x 25	2200	16 x 36	2500	25 x 30	2900	25 x 40	3200
6800	13 x 25	1920	16 x 25	2250	16 x 36	2650	18 x 36	2900	20 x 40	3000	22 x 50	3500	25 x 50	3900
					16 x 25	2250	16 x 36	2600	18 x 40	2800	25 x 40	3300		
10000	16 x 25	2350	16 x 36	2700	18 x 36	2950	20 x 40	3000	22 x 50	3700	25 x 50	4000		
			16 x 32	2550	16 x 36	2710	18 x 40	2800	25 x 40	3600				
15000	16 x 36	2850	18 x 36	3100	20 x 40	3400	22 x 50	3800	25 x 50	4300				
	16 x 32	2550	16 x 36	2880	18 x 40	3100	25 x 40	3600						
22000	18 x 36	3200	18 x 40	3400	22 x 50	4200	25 x 50	4500						
	22 x 30	3200	25 x 30	3300	25 x 40	4000								
33000	22 x 50	3900	22 x 50	4500	25 x 50	4800								
	25 x 40	3800	25 x 40	4800										
47000	22 x 50	3900	25 x 50	5000									Case Size	ripple

Ripple current (mA) at 85°C 120 Hz

Fixed Component
Capacitors



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Fixed Component
Capacitors

Δ Dimensions

WV(SV)	100 (125)	160 (200)		200 (250)		250 (300)		350 (400)		400 (450)		450 (500)	
Cap (μF)													
0.1	5 x 11	2.1			6.3 x 11	2.1							
0.22	5 x 11	4.7			6.3 x 11	4.7							
0.33	5 x 11	7			6.3 x 11	7							
0.47	5 x 11	10	6.3 x 11	15	6.3 x 11	15	6.3 x 11	15		6.3 x 11	12		
1	5 x 11	21	6.3 x 11	22	8 x 11	25	8 x 11						
											6.3 x 11	20	
2.2	5 x 11	30	6.3 x 11	33	6.3 x 11	33	6.3 x 11	33	8 x 11	38	10 x 12	45	10 x 12
									6.3 x 11	30	8 x 11	38	8 x 11
3.3	5 x 11	40	6.3 x 11	40	6.3 x 11	40	8 x 11	46	10 x 12	55	10 x 12	55	10 x 16
							6.3 x 11	40	8 x 11	43	8 x 11	48	10 x 12
4.7	5 x 11	45	6.3 x 11	50	8 x 11	55	8 x 11	55	10 x 12	65	10 x 16	70	10 x 20
					6.3 x 11	50	6.3 x 11	50	8 x 11	55	10 x 12	60	10 x 12
10	6.3 x 11	75	8 x 11	80	10 x 12	95	10 x 16	105	10 x 20	115	13 x 20	130	13 x 20
	5 x 11	70			8 x 11	80	10 x 12	100	10 x 12	90	10 x 16	90	10 x 20
22	6.3 x 11	130	10 x 16	155	10 x 20	170	13 x 20	190	13 x 25	200	16 x 25	240	16 x 25
			10 x 12	130	10 x 16	150	10 x 20	150	13 x 20	150	13 x 25	200	13 x 25
33	8 x 11	180	10 x 20	205	13 x 20	230	13 x 20	230	16 x 25	275	16 x 32	300	16 x 36
			10 x 16	180	10 x 20	200	10 x 20	200	13 x 25	240	16 x 25	240	16 x 25
47	10 x 12	230	13 x 20	270	13 x 20	270	13 x 25	300	16 x 36	380	16 x 36	370	18 x 40
	8 x 11	200	10 x 20	210			13 x 20	270	16 x 25	300	16 x 25	280	16 x 32
68	10 x 12	270	13 x 20	350	13 x 25	350	16 x 25	380	16 x 25	400	16 x 32	340	18 x 36
100	10 x 20	370	13 x 25	430	16 x 32	530	16 x 32	520	18 x 40	590	20 x 40	550	22 x 40
	10 x 16	340			16 x 25	450	16 x 25	440	18 x 36	520	18 x 36	440	18 x 40
220	13 x 25	620	16 x 36	800	18 x 36	810	20 x 40	740	22 x 50	850	25 x 50	750	
	13 x 20	550	16 x 32	580	16 x 36	700	18 x 36	680	22 x 50	760	22 x 50	650	25 x 50
330	13 x 25	760	18 x 40	940	20 x 40	1130	22 x 50	1170					
			18 x 36	800	18 x 40	950	20 x 40	1000	25 x 50	1000			
470	16 x 25	1000	22 x 40	1410	22 x 50	1490	25 x 50	1600					
			18 x 40	1200	22 x 40	1300	22 x 50	1400					
1000	18 x 40	1380	25 x 50	1900									
	18 x 36	1350											
2200	22 x 50	2400											
	22 x 50	2400											
3300	25 x 50	2900											

Ripple current (mA) at 85°C 120 Hz

- Frequency coefficient of allowable ripple current

WV	Cap(μF)	Frequency	50 Hz	120 Hz	300 Hz	1 KHz	10 KHz~
6.3~100	~ 68	0.75	1	1.35	1.57	2.00	
	100 ~ 470	0.80	1	1.23	1.34	1.50	
	1,000 ~ 47,000	0.85	1	1.10	1.13	1.15	
160~450	0.47 ~ 220	0.80	1	1.25	1.40	1.60	
	330 ~ 1,000	0.95	1	1.10	1.13	1.15	

- Allowable ripple vs. Ambient temperature

Ambient Temp. (°C)	~ +70	+85
Compensating Coefficient	1.27	1.0