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Rubycon **LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS** **USG**

USG SERIES

85℃ Miniaturized, Snap-in Terminal Type



◆FEATURES

- Load Life : 85℃ 2000 hours.
- Smaller size than USC series.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	−40～+85℃	−25～+85℃
Rated Voltage Range	160～250V.DC	400～450V.DC
Capacitance Tolerance	±20%(20℃,120Hz)	
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=(μA) Leakage Current　C=(μF) Rated Capacitance　V=(V) Rated Voltage	
(tanδ) Dissipation Factor(MAX)	0.2(20℃,120Hz)	
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85℃, the capacitors shall meet the following requirements. Capacitance Change: Within ±20% of the initial value. Dissipation Factor: Not more than 200% of the specified value. Leakage Current: Not more than the specified value.	
Low Temperature Stability Impedance Ration(MAX)	Rated Voltage: 160～250 / 400 / 420～450 (120Hz) Z(−25℃)/Z(20℃): 4 / 8 / 12 Z(−40℃)/Z(20℃): 12 / − / −	

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

(Hz) Frequency		60(50)	120	500	1k	10k≦
Coefficient	160～250WV	0.80	1.00	1.20	1.30	1.50
	400～450WV	0.80	1.00	1.20	1.25	1.40

◆OPTION

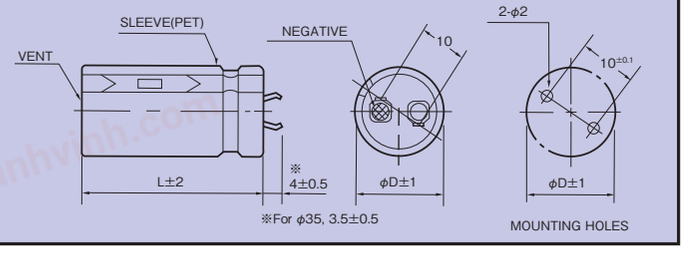
	Code
PET Sleeve without plate	EFC

◆PART NUMBER

□□□	USG	□□□□□	M	□□□	SN	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Terminal Code	Case Size

◆DIMENSIONS (mm)

●SN[4(3.5)mm] terminal type



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◆STANDARD SIZE

WV / Cap (μF) / φD	160										180									
	φ20		φ22		φ25		φ30		φ35		φ20		φ22		φ25		φ30		φ35	
390	20×25	1.19									20×25	1.84								
470	20×30	1.76	22×25	1.76							20×30	2.08	22×25	2.08						
560	20×30	2.25	22×25	2.25							20×35	2.25	22×30	2.25						
680	20×35	2.50	22×30	2.50	25×25	2.50					20×40	2.50	22×35	2.50	25×25	2.50				
820	20×40	2.75	22×35	2.75	25×30	2.75					20×45	2.75	22×40	2.75	25×30	2.75				
1000			22×40	3.00	25×30	3.00	30×25	3.00					22×45	3.00	25×35	3.00	30×25	3.00		
1200			22×45	3.25	25×35	3.25	30×30	3.25					22×50	3.31	25×40	3.31	30×30	3.31	35×25	3.31
1500					25×45	3.73	30×35	3.73							25×50	3.83	30×35	3.83	35×30	3.83
1800					25×50	4.20	30×35	4.20	35×30	4.20							30×40	4.32	35×35	4.32
2200							30×45	4.78	35×35	4.78							30×50	4.92	35×40	4.92
2700							30×50	5.45	35×40	5.45									35×45	5.52
3300									35×45	5.75										

WV / Cap (μF) / φD	200										220									
	φ20		φ22		φ25		φ30		φ35		φ20		φ22		φ25		φ30		φ35	
270											20×25	1.42								
330	20×25	1.44									20×30	1.58	22×25	1.58						
390	20×30	1.68	22×25	1.68							20×35	1.75	22×30	1.75						
470	20×35	1.93	22×30	1.93	25×25	1.93					20×35	1.99	22×30	1.99	25×25	1.99				
560	20×35	2.43	22×30	2.43	25×25	2.43					20×40	2.28	22×35	2.28	25×30	2.28				
680	20×40	2.68	22×35	2.68	25×30	2.68	30×25	2.68					22×40	2.46	25×30	2.46	30×25	2.46		
820			22×40	2.93	25×30	2.93	30×25	2.93					22×45	2.81	25×35	2.81	30×30	2.81		
1000			22×45	3.25	25×35	3.25	30×30	3.25	35×25	3.25					25×45	3.29	30×30	3.29		
1200					25×45	3.50	30×35	3.50	35×30	3.50					25×50	3.60	30×35	3.60	35×30	3.60
1500					25×50	3.87	30×40	3.87	35×30	3.87							30×45	3.92	35×35	3.92
1800							30×45	4.32	35×35	4.32							30×50	4.30	35×40	4.30
2200							30×50	4.92	35×40	4.92									35×50	4.95
2700									35×50	5.45										

WV / Cap (μF) / φD	250										400									
	φ20		φ22		φ25		φ30		φ35		φ20		φ22		φ25		φ30		φ35	
82											20×25	0.80								
100											20×30	0.94	22×25	0.94						
120											20×30	1.08	22×25	1.08						
150											20×35	1.21	22×30	1.21	25×25	1.21				
180											20×40	1.45	22×35	1.45	25×25	1.45				
220	20×25	1.23											22×40	1.58	25×30	1.58	30×25	1.58		
270	20×30	1.31	22×25	1.31									22×45	1.67	25×35	1.67	30×25	1.67		
330	20×30	1.75	22×25	1.75									22×50	1.90	25×40	1.90	30×30	1.90	35×25	1.90
390	20×35	1.91	22×30	1.91	25×25	1.91									25×45	2.13	30×35	2.13	35×30	2.13
470	20×40	2.11	22×35	2.11	25×25	2.11									25×50	2.39	30×40	2.39	35×30	2.39
560			22×40	2.25	25×30	2.25	30×25	2.25									30×45	2.69	35×35	2.69
680			22×45	2.50	25×35	2.50	30×30	2.50											35×40	2.96
820					25×40	2.77	30×30	2.77	35×25	2.77									35×50	3.25
1000					25×45	3.32	30×35	3.32	35×30	3.32										
1200							30×40	3.84	35×35	3.84										
1500							30×50	4.25	35×40	4.25										
1800									35×45	4.55										

WV / Cap (μF) / φD	420										450									
	φ20		φ22		φ25		φ30		φ35		φ20		φ22		φ25		φ30		φ35	
68											20×25	0.66								
82	20×25	0.83									20×25	0.83								
100	20×30	0.97	22×25	0.97							20×30	0.93	22×25	0.93						
120	20×30	1.08	22×25	1.08							20×35	1.04	22×30	1.04	25×25	1.04				
150	20×35	1.30	22×30	1.30	25×25	1.30					20×40	1.29	22×35	1.29	25×25	1.29				
180	20×40	1.48	22×35	1.48	25×30	1.48							22×40	1.40	25×30	1.40	30×25	1.40		
220			22×40	1.65	25×35	1.65	30×25	1.65					22×45	1.66	25×35	1.66	30×25	1.66		
270			22×50	1.94	25×35	1.94	30×30	1.94					22×50	1.81	25×40	1.81	30×30	1.81	35×25	1.81
330					25×45	2.17	30×35	2.17	35×30	2.17					25×45	2.10	30×35	2.10	35×30	2.10
390					25×50	2.27	30×35	2.27	35×30	2.27							30×40	2.32	35×35	2.32
470							30×40	2.61	35×35	2.61							30×45	2.66	35×40	2.66
560							30×50	2.82	35×40	2.82									35×40	2.82
680									35×45	3.11									35×50	3.00

Ripple Current (A r.m.s./120Hz, 85℃)

Case Size φD×L(mm)