

USG SERIES

UPGRADE

85°C Miniaturized, Snap-in Terminal Type

◆FEATURES

- Load Life : 85°C 3000 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√CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V)					
(tanδ) Dissipation Factor(MAX)	0.2 (20℃,120Hz)					
Endurance	After applying rated voltage with rated ripple current for 3000 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 Ratio(MAX)	Rated Voltage (V)		160~250	400	420~450	(120Hz)
	Z(-25℃)/Z(20℃)		4	8	12	
	Z(-40℃)/Z(20℃)		12	—	—	

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Frequency (Hz)	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

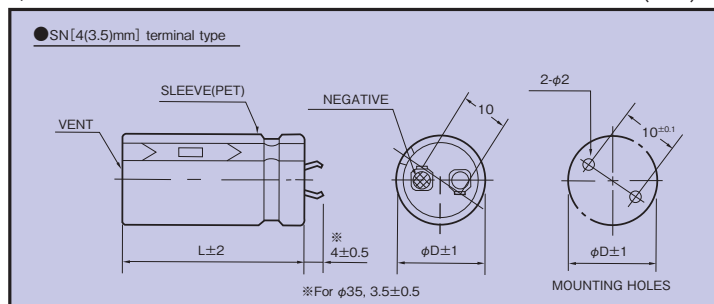
	Code
PET Sleeve without plate	EFC

◆PART NUMBER

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

◆DIMENSIONS

(mm)



◆ STANDARD SIZE

Cap (μ F)	WV ϕ D	160					180				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
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					

Cap (μ F)	WV ϕ D	200					220				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
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					

Cap (μ F)	WV ϕ D	250					400				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
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					

Cap (μ F)	WV ϕ D	420					450				
		ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35	ϕ 20	ϕ 22	ϕ 25	ϕ 30	ϕ 35
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°C)
Case Size ϕ D×L(mm)