

USH SERIES

NEW

85°C Ultra Miniaturized, Snap-in Terminal Type

◆ FEATURES

- Load Life : 85°C 2000 hours.
- Smaller size than USG series.
- RoHS compliance.



◆ SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-25~+85C								
Rated Voltage Range	400~450V.DC								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(µA) C =Rated Capacitance(µF) V =Rated Voltage(V)								
(tanδ) Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>400~450</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td></td> </tr> </table>	Rated Voltage (V)	400~450	(20°C, 120Hz)	tan δ	0.20			
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tan δ	0.20								
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>400</td> <td>420~450</td> <td>(120Hz)</td> </tr> <tr> <td>$Z(-25°C)/Z(20°C)$</td> <td>8</td> <td>12</td> <td></td> </tr> </table>	Rated Voltage (V)	400	420~450	(120Hz)	$Z(-25°C)/Z(20°C)$	8	12	
Rated Voltage (V)	400	420~450	(120Hz)						
$Z(-25°C)/Z(20°C)$	8	12							
Endurance	<p>After applying rated voltage with rated ripple current for 2000 hours at 85°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	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.		
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Leakage Current	Not more than the specified value.								

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k ≤
Coefficient	0.80	1.00	1.20	1.25	1.40

◆ OPTION

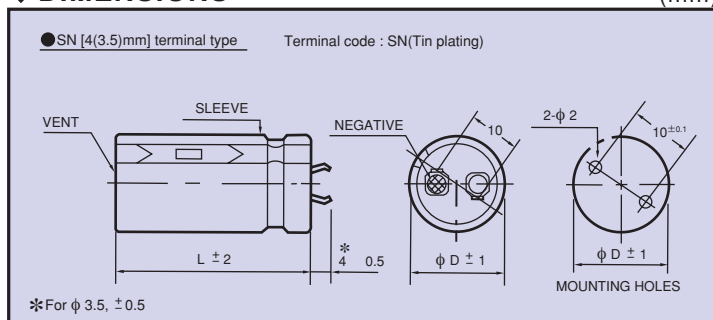
PET Sleeve without plate	Code
	EFC

◆ PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ **STANDARD SIZE**

Cap (μ F)	WV ϕ D	400							
		ϕ 22		ϕ 25		ϕ 30		ϕ 35	
150		22X25	1.21						
180		22X30	1.45						
220		22X35	1.58	25X25	1.58				
270		22X40	1.67	25X30	1.67	30X25	1.67		
330		22X45	1.90	25X35	1.90	30X30	1.90		
390		22X50	2.13	25X40	2.13	30X30	2.13	35X25	2.13
470				25X45	2.39	30X35	2.39	35X30	2.39
560						30X40	2.69	35X35	2.69
680						30X50	2.96	35X35	2.96
820								35X45	3.25
1000								35X50	3.60

Cap (μ F)	WV ϕ D	420							
		ϕ 22		ϕ 25		ϕ 30		ϕ 35	
150		22X25	1.30						
180		22X30	1.48	25X25	1.48				
220		22X35	1.65	25X30	1.65				
270		22X45	1.94	25X35	1.94	30X25	1.94		
330		22X50	2.17	25X40	2.17	30X30	2.17	35X25	2.17
390				25X45	2.27	30X30	2.27	35X30	2.27
470				25X50	2.61	30X35	2.61	35X30	2.61
560						30X45	2.82	35X35	2.82
680						30X50	3.11	35X40	3.11
820								35X45	3.40

Cap (μ F)	WV ϕ D	450							
		ϕ 22		ϕ 25		ϕ 30		ϕ 35	
120		22X25	1.04						
150		22X30	1.29						
180		22X35	1.40	25X25	1.40				
220		22X40	1.66	25X30	1.66				
270		22X45	1.81	25X35	1.81	30X25	1.81		
330				25X40	2.10	30X30	2.10	35X25	2.10
390				25X50	2.32	30X35	2.32	35X30	2.32
470						30X40	2.66	35X35	2.66
560						30X50	2.82	35X35	2.82
680								35X45	3.00
820								35X50	3.30

↑ ↑
Ripple Current (A r.m.s./120Hz, 105°C)
Case Size ϕ D X L (mm)