

USH SERIES

85°C Miniaturized

\*Load Life : 85°C 3000 hours.

RoHS compliance



◆ SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-25~+85°C								
Rated Voltage Range	400~450Vdc								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) $I$ =Leakage Current( $\mu A$ ) $C$ =Capacitance( $\mu F$ ) $V$ =Rated Voltage(Vdc)								
Dissipation Factor(MAX) (tan $\delta$ )	0.2 (20°C, 120Hz)								
Endurance	After applying rated voltage with rated ripple current for 3000 hours at 85°C, the capacitors shall meet the following requirements. <table border="1" style="margin-left: 20px;"> <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.		
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)	<table border="1" style="margin-left: 20px;"> <tr> <td>Rated Voltage (Vdc)</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 (Vdc)	400	420~450	(120Hz)	Z(-25°C)/Z(20°C)	8	12	
Rated Voltage (Vdc)	400	420~450	(120Hz)						
Z(-25°C)/Z(20°C)	8	12							

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120(100)	300	500	1k	10k $\leq$
Coefficient	0.80	1.00	1.15	1.20	1.25	1.40

◆ OPTION

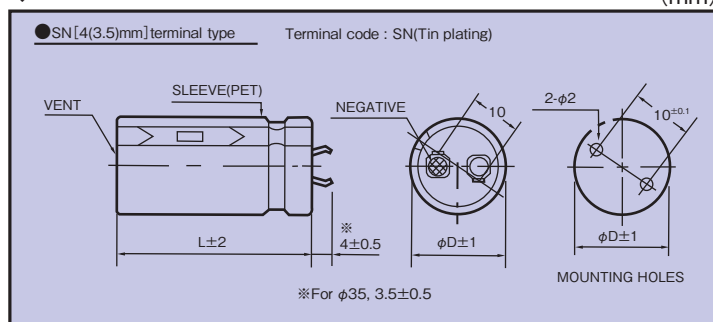
PET Sleeve without plate	Code EFC
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◆ PART NUMBER

   USH           M          SN    DXL  
 Rated Voltage    Series    Capacitance    Capacitance Tolerance    Option    Terminal Code    Case Size

◆ DIMENSIONS

(mm)



**◆ STANDARD SIZE**

Cap ( $\mu$ F)	Vdc		400							
	$\phi$ D		$\phi$ 22		$\phi$ 25		$\phi$ 30		$\phi$ 35	
150			22x25	1.37						
180			22x30	1.58						
220			22x35	1.81	25x25	1.66				
270			22x40	2.06	25x30	1.92	30x25	1.88		
330			22x45	2.32	25x35	2.20	30x30	2.18		
390			22x50	2.54	25x40	2.46	30x30	2.28	35x25	2.13
470			22x60	2.93	25x45	2.73	30x35	2.59	35x30	2.41
560					25x55	3.19	30x40	2.90	35x35	2.75
680							30x50	3.40	35x35	2.96
820							30x55	3.74	35x45	3.43
1000									35x50	3.76
1200									35x60	4.32

Cap ( $\mu$ F)	Vdc		420							
	$\phi$ D		$\phi$ 22		$\phi$ 25		$\phi$ 30		$\phi$ 35	
150			22x25	1.33						
180			22x30	1.54	25x25	1.51				
220			22x35	1.77	25x30	1.75				
270			22x45	2.09	25x35	2.00	30x25	1.94		
330			22x50	2.36	25x40	2.28	30x30	2.17	35x25	2.17
390			22x55	2.61	25x45	2.53	30x30	2.27	35x30	2.31
470					25x50	2.82	30x35	2.61	35x30	2.61
560					25x55	3.07	30x45	3.01	35x35	2.82
680							30x50	3.29	35x40	3.11
820							30x55	3.62	35x45	3.40
1000									35x50	3.65
1200									35x60	4.20

Cap ( $\mu$ F)	Vdc		450							
	$\phi$ D		$\phi$ 22		$\phi$ 25		$\phi$ 30		$\phi$ 35	
120			22x25	1.24						
150			22x30	1.45						
180			22x35	1.65	25x25	1.53				
220			22x40	1.87	25x30	1.77				
270			22x45	2.12	25x35	2.03	30x25	1.84		
330			22x55	2.46	25x40	2.30	30x30	2.14	35x25	2.10
390			22x60	2.72	25x50	2.65	30x35	2.42	35x30	2.32
470					25x55	2.95	30x40	2.72	35x35	2.66
560							30x50	3.17	35x35	2.82
680							30x55	3.50	35x45	3.25
820									35x50	3.57
1000									35x60	4.11

↑ Ripple Current (A r.m.s./120Hz, 85°C)  
 ↑ Case Size  $\phi$ DxL(mm)