

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(μ A) C =Capacitance(μ F) V =Rated Voltage(Vdc)						
Dissipation Factor(MAX) (tan δ)	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="width: 100%; margin-top: 5px;"> <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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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="display: inline-table; margin-right: 10px;"> <tr> <td>Rated Voltage (Vdc)</td> <td>400</td> <td>420~450</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> <td>12</td> </tr> </table> (120Hz)	Rated Voltage (Vdc)	400	420~450	Z(-25°C)/Z(20°C)	8	12
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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

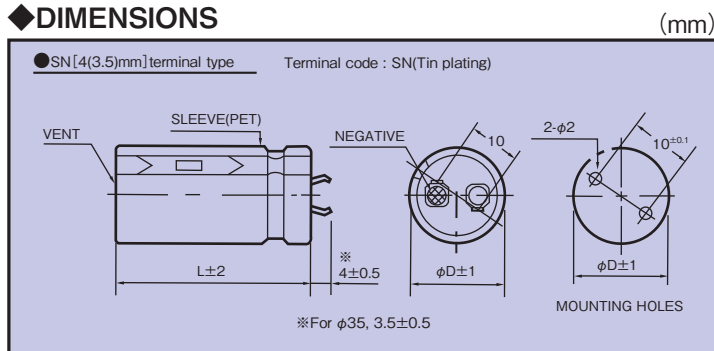
◆OPTION

	Code
PET Sleeve without plate	EFC

◆PART NUMBER

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

◆DIMENSIONS



◆ STANDARD SIZE

Cap (μF)	Vdc		400									
	ϕD		$\phi 22$		$\phi 25$		$\phi 30$		$\phi 35$			
150	22	25	1.37									
180	22	30	1.58									
220	22	35	1.81	25	25	1.66						
270	22	40	2.06	25	30	1.92	30	25	1.88			
330	22	45	2.32	25	35	2.20	30	30	2.18			
390	22	50	2.54	25	40	2.46	30	30	2.28	35	25	2.13
470	22	60	2.93	25	45	2.73	30	35	2.59	35	30	2.41
560				25	55	3.19	30	40	2.90	35	35	2.75
680							30	50	3.40	35	35	2.96
820							30	55	3.74	35	45	3.43
1000										35	50	3.76
1200										35	60	4.32

Cap (μF)	Vdc		420									
	ϕD		$\phi 22$		$\phi 25$		$\phi 30$		$\phi 35$			
150	22	25	1.33									
180	22	30	1.54	25	25	1.51						
220	22	35	1.77	25	30	1.75						
270	22	45	2.09	25	35	2.00	30	25	1.94			
330	22	50	2.36	25	40	2.28	30	30	2.17	35	25	2.17
390	22	55	2.61	25	45	2.53	30	30	2.27	35	30	2.31
470				25	50	2.82	30	35	2.61	35	30	2.61
560				25	55	3.07	30	45	3.01	35	35	2.82
680							30	50	3.29	35	40	3.11
820							30	55	3.62	35	45	3.40
1000										35	50	3.65
1200										35	60	4.20

Cap (μF)	Vdc		450									
	ϕD		$\phi 22$		$\phi 25$		$\phi 30$		$\phi 35$			
120	22	25	1.24									
150	22	30	1.45									
180	22	35	1.65	25	25	1.53						
220	22	40	1.87	25	30	1.77						
270	22	45	2.12	25	35	2.03	30	25	1.84			
330	22	55	2.46	25	40	2.30	30	30	2.14	35	25	2.10
390	22	60	2.72	25	50	2.65	30	35	2.42	35	30	2.32
470				25	55	2.95	30	40	2.72	35	35	2.66
560							30	50	3.17	35	35	2.82
680							30	55	3.50	35	45	3.25
820										35	50	3.57
1000										35	60	4.11

↑ Ripple Current (A r.m.s./120Hz, 85°C)
 ↑ Case Size $\phi\text{D}\times\text{L}$ (mm)