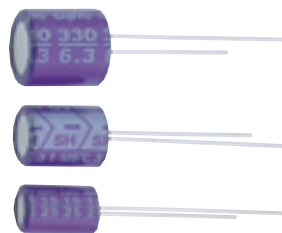


II. SPECIFICATIONS FOR EACH SERIES

Long Life (105°C X 5,000h)

SH series has a long life span (guaranteed 105°C X 5,000h) with keeping high frequency characteristics. Use for industrial equipment to be needed high reliability.



SH
Series

Sleeve color : Purple

Marking : Polarity($\ominus$), Rated voltage, Rated Capacitance (White)

SANYO, OS-CON, Lot.No., Series name
Upper category temp.(105°C)

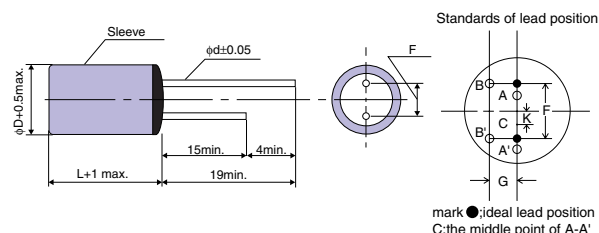
■ Specifications

Items	Characteristics		
1. Category temperature range	-55°C to +105°C		
2. Tolerance on rated capacitance (120Hz)	M : $\pm 20\%$		
3. Tangent of loss angle($\tan\delta$) (120Hz)	Less than or equal to the value of Table4		
4. Leakage current ($\mu A/2min$)(or less) ※2	Less than or equal to the value of Table4		
5. ESR (100k to 300kHz)	Less than or equal to the value of Table4		
6. Characteristics at high temp. and low temp. Impedance ratio at 100kHz, +20°C	-55°C	Z / Z _{20°C}	0.75 to 1.25
	+105°C	Z / Z _{20°C}	0.75 to 1.25
7. Endurance 105°C, 5,000h Rated voltage applied (25WV→20V applied) ※1	$\Delta C/C$	Within $\pm 30\%$	
	$\tan\delta$	1.5 times of Item 3 or less	
	Leakage current	5 times of Item 4 or less	
	$\Delta C/C$	Within $\pm 10\%$	
8. Damp heat (Steady state) (60°C, 90 to 95%RH, 1,000h no voltage)	$\tan\delta$	1.5 times of Item 3 or less	
	Leakage current	Item 4 or less	

※1 Please reduce 0.25V per 1°C from over 85°C for 25V products.

※2 In case of some problems for measured values, measure after applying rated voltage for 6.3 to 20V products or temperature derating voltage for 25V products for 30 minutes at 105°C.

■ Dimensions



(unit : mm)

Size Code	A	B	C	D	E	F
φDXL	4.0X6.8	5.0X6.8	6.3X6.8	6.3X9.8	8X10.5	10X10.5
F	2.0±0.5	2.0±0.5	2.5±0.5	2.5±0.5	3.5±0.5	5.0±0.5
φd	0.45	0.45	0.45	0.60	0.60	0.60
G(max.)	0.5	0.5	0.5	0.5	0.8	0.8
K(max.)	0.5	0.5	0.5	0.5	0.8	0.8

■ Size List

WV : Rated voltage

(SV) : Surge (room temperature)

μF	WV (SV)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (25)
1.0						A
1.5						A
2.2				A		B
3.3				A		B
4.7			A	B		C
6.8	A		B			C
10			B			C
15	B				C	D
22					C	
33				C	D	
47	C			D	E	
68			D		E	
100				E	F	
150	E			F		
220			F			
330	F					

II. SPECIFICATIONS FOR EACH SERIES

Table4 SH Series Characteristics List

Size Code	Part Number ※1	Rated Voltage (V)	Rated Capacitance (μF)	ESR (100kHz to 300kHz) (mΩ) (max.)	Allowable ripple current (mA _{rms})※2	Tangent of loss angle (max.)	Leakage current (μA) (max.)※3
A	25SH1M	25	1.0	350	430	0.03	0.50
	25SH1R5M	25	1.5	300	435	0.03	0.75
	16SH2R2M	16	2.2	280	450	0.04	0.70
	16SH3R3M	16	3.3	280	500	0.04	1.06
	10SH4R7M	10	4.7	280	540	0.05	0.94
	6SH6R8M	6.3	6.8	250	560	0.05	0.86
B	25SH2R2M	25	2.2	200	695	0.03	1.10
	25SH3R3M	25	3.3	200	700	0.03	1.65
	16SH4R7M	16	4.7	180	720	0.04	1.50
	16SH6R8M	16	6.8	150	745	0.04	2.18
	10SH10M	10	10	150	780	0.05	2.00
	6SH15M	6.3	15	120	815	0.05	1.89
C	25SH4R7M	25	4.7	100	1130	0.03	2.35
	25SH6R8M	25	6.8	100	1140	0.03	3.40
	25SH10M	25	10	90	1150	0.03	5.00
	20SH15M	20	15	90	1200	0.05	6.00
	20SH22M	20	22	70	1300	0.05	8.80
	16SH33M	16	33	70	1370	0.06	10.56
	6SH47M	6.3	47	60	1430	0.07	5.92
D	25SH15M	25	15	70	1650	0.04	7.50
	20SH33M	20	33	70	1710	0.06	13.20
	16SH47M	16	47	60	1830	0.06	15.04
	10SH68M	10	68	50	2000	0.07	13.60
E	20SH47M	20	47	40	2450	0.06	18.80
	20SH68M	20	68	36	2600	0.06	27.20
	16SH100M	16	100	30	2740	0.06	32.00
	6SH150M	6.3	150	30	2780	0.07	18.90
F	20SH100M	20	100	30	3210	0.06	40.00
	16SH150M	16	150	28	3260	0.06	48.00
	10SH220M	10	220	27	3370	0.07	44.00
	6SH330M	6.3	330	25	3500	0.07	41.58

※1 Tolerance on rated capacitance : M ; ±20%, Product "K" (Tolerance on rated capacitance : ±10%) is optionally available.

※2 100kHz, +45°C

※3 After 2 minutes

Temperature coefficient for allowable ripple current

Ambient Temp.	T ≤ 45°C	45°C < T ≤ 65°C	65°C < T ≤ 85°C	85°C < T ≤ 95°C	95°C < T ≤ 105°C
Coefficient	1	0.85	0.7	0.4	0.25