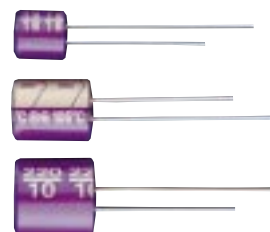


Specially designed for audio

- This is optimum for digital audio and Hi-Fi VCR.
- Since **OS-CON** has solid electrolyte and resin-sealed structure, it doesn't expose the phenomenon of element vibration.
- Adopted OFC (Oxygen Free Copper) into the lead terminals for improvement of tone quality.



SG
Series

Sleeve color : Purple
 Marking : Polarity($\ominus$), Rated voltage, Capacitance (Gold)
 : **SANYO**, **OS-CON**, Lot.No.
 Max. operating temp.(105°C)

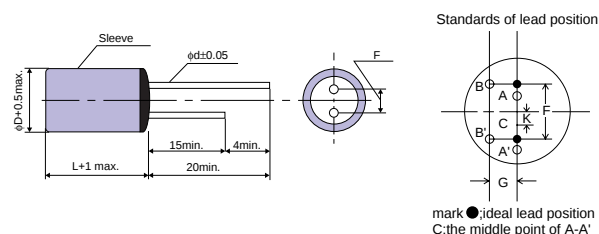
Specifications

Items	Characteristics		
1. Operating temperature range	-55°C to +105°C		
2. Capacitance tolerance (120Hz)	M : $\pm 20\%$		
3. Tangent of loss angle($\tan\delta$) (120Hz)	Value in Table 5 or less		
4. Leakage current ($\mu A/2min.$)(or less) *2	0.02CV (0.04CV for G,H size)		
5. ESR (100k to 300kHz)	Value in Table 5 or less		
6. Temperature characteristics Impedance ratio at 100kHz., +20°C	-55°C	Z / Z _{20°C}	1.0 to 1.25
	+105°C	Z / Z _{20°C}	0.75 to 1.0
7. High-temperature load 105°C, 2,000Hrs. (G, H size ; 1,000Hrs.) Rated voltage applied (25WV→20V applied) *1	$\Delta C/C$		Within $\pm 20\%$
	$\tan\delta$		1.5 times of Item 3 or less
	Leakage current		Item 4 or less
	$\Delta C/C$		Within $\pm 10\%$
8. Moisture resistance (60°C, 90 to 95%RH, 1,000Hrs. no voltage)	$\tan\delta$		1.5 times of Item 3 or less
	Leakage current		Item 4 or less
	$\Delta C/C$		Within $\pm 10\%$
9. Reverse voltage guarantee	Temporary:less than 20% of the rated voltage, Continuous:less than 10% of the rated voltage		

*1 To use an **OS-CON** when the operating temperature exceeds 85°C on a component with a rated voltage of 25V, reduce the voltage by 0.25V for every degree(1°C) relative to the value at 85°C(25V).

*2 If any doubt arises, measure the current after applying voltage(voltage treatment) for 30 minutes at 105°C. The rated voltage should be applied for 6.3 to 20WV, while a temperature reduction voltage should be applied for 25WV.

Dimensions



Standards of lead position

(unit : mm)

Size Code	C	D	E	F	G	H
ϕDXL	6.3X6.8	6.3X9.8	8.0X10.5	10X10.5	12.5X22	16X25
F	2.5 $\pm$ 0.5	2.5 $\pm$ 0.5	3.5 $\pm$ 0.5	5.0 $\pm$ 0.5	5.0 $\pm$ 1.0	7.5 $\pm$ 1.0
ϕd	0.45	0.60	0.60	0.60	0.80	0.80
G(max.)	0.5	0.5	0.8	0.8	0.8	0.8
K(max.)	0.5	0.5	0.8	0.8	0.8	0.8

Size List

WV : Rated voltage
 (SV) : Surge voltage(room temperature)

μF	WV (SV)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (25)
4.7						C
6.8						C
10				C		C
15					C	D
22					C	
33				C	D	
47	C		D	E		
68		D		E		
100			E	F		
150	E		F			
220		F				
330	F					
470				G		
1000				H		
2200	H					

■Table 5 SG Series Characteristics List

Size Code	Part Number ^{*1}	Rated Voltage (V)	Nominal Capacitance (μF)	ESR (100kHz to 300kHz) (mΩ) (max.)	Maximum allowable ripple current (mA _{rms})*2	Tangent of loss angle (max.)	Leakage current (μA) (max.)*3
C	25SG4R7M	25	4.7	100	1130	0.05	2.35
	25SG6R8M	25	6.8	100	1140	0.05	3.40
	25SG10M	25	10	90	1150	0.05	5.00
	20SG15M	20	15	90	1200	0.06	6.00
	20SG22M	20	22	70	1300	0.06	8.80
	16SG10M	16	10	90	1150	0.06	3.20
	16SG33M	16	33	70	1370	0.06	10.56
	6SG47M	6.3	47	60	1430	0.07	5.92
D	25SG15M	25	15	70	1650	0.05	7.50
	20SG33M	20	33	70	1710	0.06	13.20
	16SG47M	16	47	60	1830	0.06	15.04
	10SG68M	10	68	50	2000	0.07	13.60
E	20SG47M	20	47	40	2450	0.06	18.80
	20SG68M	20	68	36	2600	0.06	27.20
	16SG100M	16	100	30	2740	0.06	32.00
	6SG150M	6.3	150	30	2780	0.07	18.90
F	20SG100M	20	100	30	3210	0.06	40.00
	16SG150M	16	150	28	3260	0.06	48.00
	10SG220M	10	220	27	3370	0.07	44.00
	6SG330M	6.3	330	25	3500	0.07	41.58
G	16SG470M	16	470	20	6080	0.08	300.80
H	16SG1000M	16	1000	15	9750	0.09	640.00
	6SG2200M	6.3	2200	15	9750	0.13	554.40

*1 Capacitance tolerance : M ; ±20%

*2 100kHz, +45°C

*3 After 2 minutes

Temperature coefficient for ripple current

Ambient Temp.(°C)	to +45	+65	+85	+95	+105
Coefficient	1.0	0.85	0.7	0.4	0.25