

●長壽命品

OPSシリーズJIS C 5101
CE-04

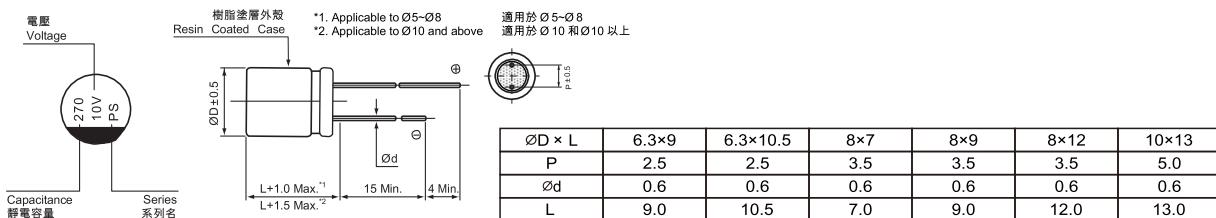
●Long Life Assurance

TYPE **OPS**JIS C 5101
CE-04

■FEATURES

- Operating with wide temperature range -55~+105°C
- Long life assurance
- Load life of 5000 hours
- RoHS & REACH compliant, Halogen-free

■寸法図/DIAGRAM OF DIMENSIONS



■性能/PERFORMANCE SPECIFICATIONS

カテゴリー/温度範囲	CATEGORY TEMPERATURE RANGE		-55 ~ +105°C	
標準静電容量許容差	STANDARD CAPACITANCE TOLERANCE		±20% at 120Hz, 20°C	
漏れ電流 (最大値)	LEAKAGE CURRENT (MAX.VALUE)		≤ Specified value (after 2 minutes application of rated voltage at 20°C)	
損失角の正接 (最大値)	DISSIPATION FACTOR (MAX.VALUE)		≤ Specified value at 120KHz, 20°C.	
E.S.R	E.S.R.		≤ Specified value at 100KHz, 20°C.	
低溫特性	Stability at Low Temperature		Measurement frequency 測試頻率: 100KHz Impedance Ratio 阻抗比 Z(+105°C)/Z(20°C) ≤ 1.25 Z/Z20 (max) Z(-55°C)/Z(20°C) ≤ 1.25	
耐久性	LOAD LIFE TEST		Capacitance Change Within ±20% of initial value Dissipation Factor 150% or less of initial specified value ESR 150% or less of initial specified value Leakage Current Initial specified value or less After 3000 hours application of the rated voltage at 105°C, they meet the characteristics listed below.	
	MOISTURE RESISTANCE		After reflow soldering and restored at room temperature, they meet the characteristics listed below.	
定格リップル電流補正係数	RIPPLE CURRENT & FREQUENCY MULTIPLIERS		Frequency(Hz) 120Hz ≤ f ≤ 1KHz 1KHz ≤ f ≤ 10KHz 10KHz ≤ f ≤ 100KHz 100KHz ≤ f ≤ 300KHz Coefficient 0.10 0.40 0.70 1.00	

■定格リップル電流補正係数

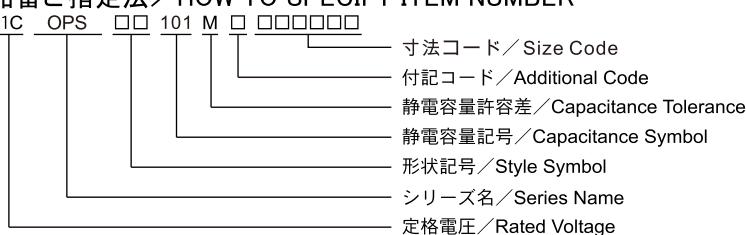
リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the spicification shown in the list of standard products, multiply the value with the coefficient shown below, and use the products under the obtained value.

周波数補正係数/FREQUENCY CORRECTION FACTOR

Cap.(μF)	Frequency (Hz)			
	120	1K	10K	100K
27~180	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1800	0.60	0.87	0.95	1.00
2200~3900	0.75	0.90	0.95	1.00
4700~10000	0.85	0.95	0.98	1.00

■品番ご指定法/HOW TO SPECIFY ITEM NUMBER



■寸法表／CASE SIZE TABLE

■Impedance[Max. Value Ω] at 20°C 100kHz

■Ripple Current [Max. value mA] at 105°C 100kHz

WV (V)	Parameter Cap. (μ F)	2.5 (0E)					4 (0G)				
		Case size $\varnothing D \times L$ (mm)	Dissipation factor (tan δ)	Leakage current (μ A)	ESR (m Ω) max. 20 °C, 100KHz	Ripple current (mA rms) 105°C, 100KHz	Case size $\varnothing D \times L$ (mm)	Dissipation factor (tan δ)	Leakage current (μ A)	ESR (m Ω) max. 20°C, 100KHz	Ripple current (mA rms) 105°C, 100KHz
270	271						6.3 × 9	0.08	216	8	4800
330	331	6.3 × 9	0.08	165	8	4800					
560	561						8 × 7 (8 × 9)	0.08 (0.08)	448 (448)	15 (7)	3900 (5200)
680	681	8 × 7	0.08	340	15	3900	8 × 12	0.08	544	7	5800
820	821	6.3 × 9 (8 × 9) (8 × 12)	0.08 (0.08) (0.08)	410 (410) (410)	8 (7) (7)	4800 (5200) (5800)					
1200	122						10 × 13	0.08	960	8	5500
1500	152	10 × 13	0.08	750	8	5500					

WV (V)	Parameter Cap. (μ F)	6.3 (0J)					10 (1A)				
		Case size $\varnothing D \times L$ (mm)	Dissipation factor (tan δ)	Leakage current (μ A)	ESR (m Ω) max. 20 °C, 100KHz	Ripple current (mA rms) 105°C, 100KHz	Case size $\varnothing D \times L$ (mm)	Dissipation factor (tan δ)	Leakage current (μ A)	ESR (m Ω) max. 20°C, 100KHz	Ripple current (mA rms) 105°C, 100KHz
150	151						6.3 × 10.5	0.08	300	20	3000
270	271						8 × 12	0.08	540	8	4900
330	331	6.3 × 10.5	0.08	416	20	3000					
390	391	8 × 7	0.08	491	15	3900					
470	471	8 × 12	0.08	592	7	5500	10 × 13	0.08	940	8	5500
560	561	6.3 × 9 (8 × 9)	0.08 (0.08)	706 (706)	9 (8)	4300 (5000)					
820	821	10 × 13	0.08	1033	8	5500					

WV (V)	Parameter Cap. (μ F)	16 (1C)				
		Case size $\varnothing D \times L$ (mm)	Dissipation factor (tan δ)	Leakage current (μ A)	ESR (m Ω) max. 20 °C, 100KHz	Ripple current (mA rms) 105°C, 100KHz
100	101	6.3 × 10.5	0.08	320	24	2800
270	271	8 × 12	0.08	864	9	4500
330	331	10 × 13	0.08	1056	9	4700
470	471	10 × 13	0.08	1504	9	4700