

GSP Low Profile Sized 105°C Series

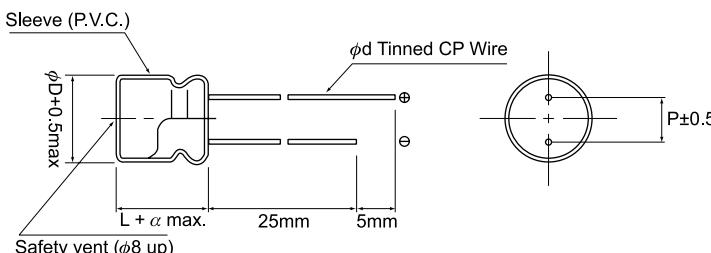
- Low profile designed and temperature range up to 105°C.
- Life guaranteed 1,000 hours/105°C.



• Specifications

Item	Performance Characteristics								
Operating Temperature range	-40 + 105°C								
Rated Voltage	6.3V ~ 100V								
Capacitance Range	0.1 ~ 10,000 µF								
Capacitance Tolerance	±20% (120Hz, 20°C)								
Leakage Current	$I \leq 0.01CV$ or $3 \mu A$, whichever is greater after 2 minutes application of rated voltage.								
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Tan δ (max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08
For capacitance of more than 1,000µF, add 0.02 for every increase of 1,000µF									
Temperature Characteristics (120Hz)	Impedance Ratio / Stability at Low Temperature								
	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Z (-25°C) / Z (20°C)	5	4	3	2	2	2	2	2
Load Life	Z (-40°C) / Z (20°C)	12	10	8	5	4	3	3	3
	After 1,000 hours application of WV at 105°C, capacitor shall meet the characteristics requirements mentioned below.								
	Capacitance change	Within ±20% of initial value							
Shelf Life	Tan δ	200% or less of initial specified value							
	Leakage current	Initial specified value or less							
	At 105°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life.								

• Dimension (mm)



D ϕ	5	6.3	8	10	13	16	18	20
P	2.0	2.5	3.5	5.0		7.5	10.0	
φd		0.5		0.6		0.8	1.0	
α				1.5			2.0	

• Standard Products Table

Cap (µF)	WV(SV)	D ϕ x L (mm)								
		6.3 (10)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (75)	100 (125)	
0.1~0.47										5 x 9
1										5 x 9
2.2										5 x 9
3.3										5 x 9
4.7										5 x 9
10										5 x 9
22										5 x 9
33						5 x 9	75	6.3 x 9	85	6.3 x 9
47					5 x 9	80	6.3 x 9	95	6.3 x 9	100
100		5 x 9	95	6.3 x 9	115	6.3 x 9	130	8 x 9	155	10 x 9
220	6.3 x 9	145	6.3 x 9	155	8 x 9	205	10 x 9	220	10 x 9	235
330	6.3 x 9	180	8 x 9	210	10 x 9	240	10 x 9	270	10 x 12	290
470	8 x 9	235	8 x 9	275	10 x 9	290	10 x 12	370	13 x 13	370
1000	10 x 9	370	10 x 12	450	13 x 13	520	13 x 15	590	16 x 15	540
2200	13 x 15	635	13 x 15	690	16 x 15	830	18 x 15	970	18 x 20	1110
3300	16 x 15	860	16 x 15	940	18 x 15	1050	18 x 20	1220	20 x 25	1430
4700	16 x 15	1010	18 x 15	1120	18 x 20	1260	18 x 25	1470		
6800	18 x 15	1200	18 x 20	1330	18 x 25	1560				
10000	18 x 20	1450	18 x 25	1700						

Case Size Ripple

Ripple current (mA) at 105°C 120Hz