



GW Series

- ◆ Wide temperature range series with 5mm height
- ◆ Load life of 1000 hours at 105°C



Technical drawing of the cable assembly showing side and cross-sectional views with dimensions and labels:

- Labels:** Vinyl Sleeve, Rubber and Seal, $d \pm 0.05$ CP wire.
- Dimensions:**
 - Overall length: $L + 1(\text{max})$
 - Length of the sleeve: $15(\text{min})$
 - Length of the seal: $5(\text{min})$
 - Outer diameter: $\varnothing D$
 - Inner diameter: $F + 0.5$
 - Outer diameter of the sleeve: $D + 0.5(\text{max})$

	mm		
D	4	5	6.3
F	1.5	2.0	2.5
d	0.45		

Items	Characteristics							
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)							
Rated Working Voltage Range	4 ~ 50Vdc							
Operation Temperature	-40°C ~ +105°C							
Leakage Current (25°C)	(After 3 minutes applying the DC working voltage)							
	I ≤ 0.01CV or 3 (μA)							
	◆ I : Leakage Current (μA)		◆ C : Rated Capacitance (μF)			◆ V : Working Voltage (V)		
Surge Voltage (25°C)	W.V.	4	6.3	10	16	25	35	50
	S.V.	5	8	13	20	32	44	63
Dissipation Factor (120Hz, 25°C)	W.V.	4	6.3	10	16	25	35	50
	tan δ	0.37	0.28	0.24	0.20	0.16	0.14	0.12
Temperature Characteristics	W.V.	4	6.3	10	16	25	35	50
	- 25°C / + 25°C	6	3	3	2	2	2	2
	- 40°C / + 25°C	12	8	5	4	3	3	3
	◆ Impedance ratio at 120Hz							
Load Test	After 1000 hours application of WV at +105°C, the capacitor shall meet the following limits:							
	Capacitance Change	≤ ± 25% of initial value						
	tan δ	≤ 200% of initial specified value						
	Leakage Current	≤ initial specified value						
Shelf Test	After 500 hours, no voltage applied at +105°C, the capacitor shall meet the following limits:							
	Capacitance Change	≤ ± 25% of initial value						
	tan δ	≤ 200% of initial specified value						
	Leakage Current	≤ 200% of initial specified value						

DB LECTRO^U_Z

■ DIMENSIONS

D x L (mm)

WV uF	4	6.3	10	16	25	35	50
0.1						]	3 x 5
0.22						]	3 x 5
0.33						]	3 x 5
0.47						]	4 x 5
1						]	4 x 5
2.2					]	4 x 5	4 x 5
3.3					]	4 x 5	4 x 5
4.7				]	4 x 5	4 x 5	5 x 5
10			]	4 x 5	5 x 5	5 x 5	6.3 x 5
22	4 x 5	4 x 5	5 x 5	5 x 5	6.3 x 5	6.3 x 5	
33	5 x 5	5 x 5	5 x 5	6.3 x 5	6.3 x 5		
47	5 x 5	5 x 5	6.3 x 5	6.3 x 5			
100	6.3 x 5	6.3 x 5					

■ PERMISSIBLE RIPPLE CURRENT

mA (rms) at 120Hz 105°C

WV uF	4	6.3	10	16	25	35	50
0.1						]	1
0.22						]	2
0.33						]	3
0.47						]	5
1						]	6
2.2					]	10	12
3.3					]	13	14
4.7				]	14	16	19
10			]	17	23	26	30
22	20	20	27	31	37	44	
33	29	30	35	40	46		
47	33	38	48	50			
100	57	63					