



SM Series

- ◆ Miniaturized low profile with 9mm to 25mm height
- ◆ Load life of 2000 hours at 85°C



Technical drawing of the cable gland assembly. The side view shows a cable with diameter $d \pm 0.05$ CP wire passing through a gland with a vinyl sleeve and rubber seal. Dimensions include $L + 2(\text{max})$ for the sleeve length, $15(\text{min})$ for the gland body length, and $5(\text{min})$ for the cable entry length. The end view shows an outer diameter of $\varnothing D$ and a flange thickness of $F + 0.5$. The flange has a diameter of $D + 0.5(\text{max})$.



mm							
D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
d	0.5			0.6		0.8	

Items	Characteristics														
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)														
Rated Working Voltage Range	6.3 ~ 250Vdc								350 ~ 450Vdc						
Operation Temperature	-40°C ~ +85°C								-25°C ~ +85°C						
Leakage Current (25°C)	(After 2 minutes applying the DC working voltage)								(After 1 minute applying the DC working voltage)						
	$I \leq 0.01CV$ or 3 (μA)								$I \leq 0.04CV + 100 (\mu A)$						
	◆ I : Leakage Current (μA) ◆ C : Rated Capacitance (μF) ◆ V : Working Voltage (V)														
Surge Voltage (25°C)	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450		
	S.V.	8	13	20	32	44	63	200	250	300	400	450	500		
Dissipation Factor (120Hz, 25°C)	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450		
	$\tan \delta$	0.28	0.24	0.20	0.16	0.14	0.12	0.15	0.15	0.15	0.20	0.24	0.24		
	◆ For capacitance exceeding 1000 μF , add 0.02 per increment of 1000 μF														
Temperature Characteristics	W.V.	6.3	10	16	25	35	50	160	200	250	350	400	450		
	- 25°C / + 25°C	5	4	3	2	2	2	3	3	3	6	6	6		
	- 40°C / + 25°C	12	10	8	5	4	3	6	6	6	-	-	-		
	◆ Impedance ratio at 120Hz														
Load Test	After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits: (1000 hours for 8 ϕ and smaller)														
	Capacitance Change		≤ ± 20% of initial value												
	$\tan \delta$		≤ 200% of initial specified value												
	Leakage Current		≤ initial specified value												
Shelf Test	After 1000 hours, no voltage applied at +85°C, the capacitor shall meet the following limits:														
	Capacitance Change		≤ ± 20% of initial value												
	$\tan \delta$		≤ 200% of initial specified value												
	Leakage Current		≤ 200% of initial specified value												

DB LECTRO

■ DIMENSIONS

D x L (mm)

[illegible]

■ PERMISSIBLE RIPPLE CURRENT

mA (rms) at 120Hz 85°C

[illegible]