

ALUMINUM ELECTROLYTIC CAPACITORS

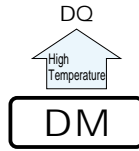


DM series 85°C Horizontal Mounting Type



Smaller

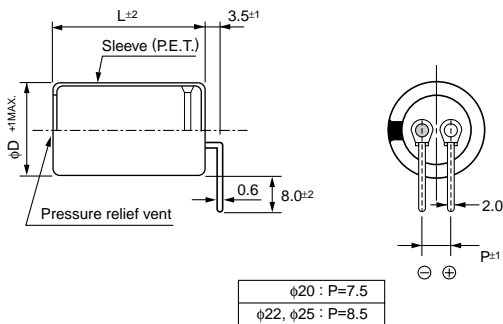
- For $\phi 20$, $\phi 22$ and $\phi 25$, but suited for horizontal mounting to assure flat and low-profile design.
- Adapted to the RoHS directive (2002/95/EC).



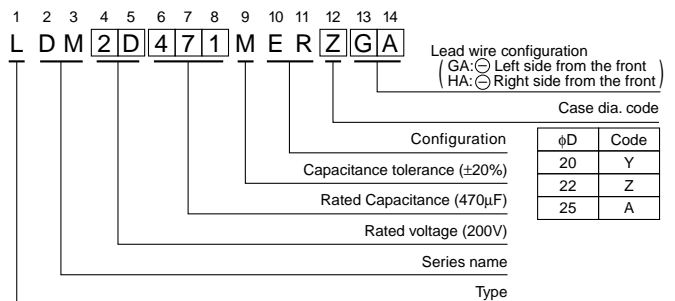
Specifications

Item	Performance Characteristics							
Category Temperature Range	- 40 to + 85°C (200V), - 25 to + 85°C (400V)							
Rated Voltage Range	200 - 400V							
Rated Capacitance Range	82 to 1200 μ F							
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C							
Leakage Current	$I \leq 3\sqrt{CV}$ (μ A) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μ F) V : Voltage (V)]							
tan δ	Measurement frequency : 120Hz, Temperature : 20°C							
	Rated voltage (V)	200 400						
	tan δ (MAX.)	0.15 0.15						
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	200 400						
	Impedance ratio	Z - 25°C/Z+20°C 3 8						
	ZT/Z20(MAX.)	Z - 40°C/Z+20°C 12 —						
Endurance	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 2000 hours at 85°C, capacitors meet the characteristic requirements listed at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within $\pm 20\%$ of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within $\pm 20\%$ of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
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tan δ	200% or less of initial specified value							
Leakage current	Initial specified value or less							
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the characteristic requirements at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within $\pm 15\%$ of initial value</td> </tr> <tr> <td>tan δ</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within $\pm 15\%$ of initial value	tan δ	150% or less of initial specified value	Leakage current	Initial specified value or less
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Marking	Printed with white color letter on black sleeve.							

Drawing



Type numbering system (Example : 200V 470 μ F)



Dimensions

Cap. (μ F)	V(Code)	Code	φD	200V (2D)			400V (2G)					
				20	22	25	20	22	25			
82	820						20 × 30	0.78				
100	101						20 × 30	0.90				
120	121						20 × 35	1.02				
150	151						20 × 40	1.17	22 × 35	1.20		
180	181						20 × 50	1.30	22 × 40	1.38	25 × 35	1.25
220	221								22 × 45	1.55	25 × 40	1.56
270	271	20 × 30	1.32						22 × 60	1.70	25 × 45	1.70
330	331	20 × 30	1.49								25 × 50	1.90
390	391	20 × 35	1.66								25 × 60	2.15
470	471	20 × 40	1.93	22 × 35	1.88							
560	561	20 × 45	2.00	22 × 40	1.96							
680	681	20 × 50	2.30	22 × 45	2.43	25 × 35	2.68					
820	821			22 × 50	2.80	25 × 40	2.80					
1000	102			22 × 60	3.00	25 × 45	3.12					
1200	122					25 × 60	3.44				Case size φ D × L (mm)	Rated ripple

* Other ratings also available on request.

Rated Ripple (Arms) at 85°C 120Hz

Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k or more
200V	0.81	0.85	1.00	1.17	1.32	1.45	1.50
400V	0.77	0.82	1.00	1.16	1.30	1.41	1.43

Minimum order quantity : 50pcs.

CAT.8100W