

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

DM

85°C Horizontal Mounting Type



series

- 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).

Products which are scheduled to be discontinued.
Not recommended for new designs



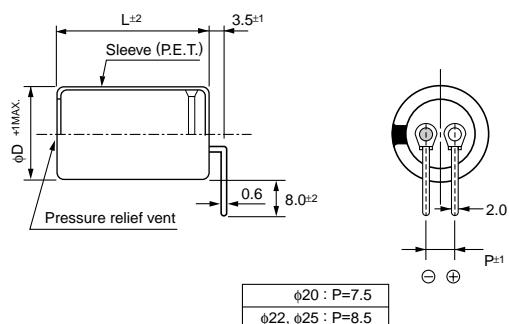
DM



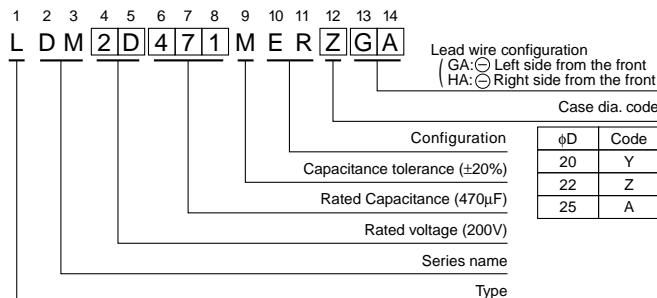
■ Specifications

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 1200μF				
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C				
Leakage Current	$I \leq 3/\sqrt{C}(\mu A)$ (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]				
Measurement frequency : 120Hz, Temperature : 20°C					
Tangent of loss angle (tan δ)	Rated voltage (V)	200	400		
	tan δ (MAX.)	0.15	0.15		
Measurement frequency : 120Hz					
Stability at Low Temperature	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	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 85°C, the peak voltage shall not exceed the rated voltage.				
	Capacitance change	Within $\pm 20\%$ of initial value			
	tan δ	200% or less of initial specified value			
	Leakage current	Less than or equal to the initial specified value			
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.				
Marking	Printed with white color letter on black sleeve.				

■ Drawing



Type numbering system (Example : 200V 470μF)



■ Dimensions

Cap.(μF)	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
180	181					20 × 50	1.30	22 × 40
220	221							25 × 35
270	271	20 × 30	1.32					1.20
330	331	20 × 30	1.49					22 × 45
390	391	20 × 35	1.66					1.55
470	471	20 × 40	1.93	22 × 35	1.88			25 × 40
560	561	20 × 45	2.00	22 × 40	1.96			1.56
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 $\phi D \times L$ (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
Coeff.	200V	0.81	0.85	1.00	1.17	1.32	1.45
	400V	0.77	0.82	1.00	1.16	1.30	1.41

Minimum order quantity : 50pcs.

CAT.8100X