

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

DQ series

Horizontal Mounting Type, Wide Temperature Range



Smaller

DQ



DM

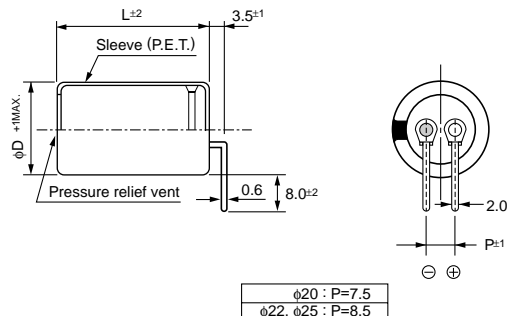


- Horizontal mounting version for $\phi 20$, $\phi 22$ and $\phi 25$.
- Suited for use in flat electronic devices where height space is limited.
- Adapted to the RoHS directive (2002/95/EC).

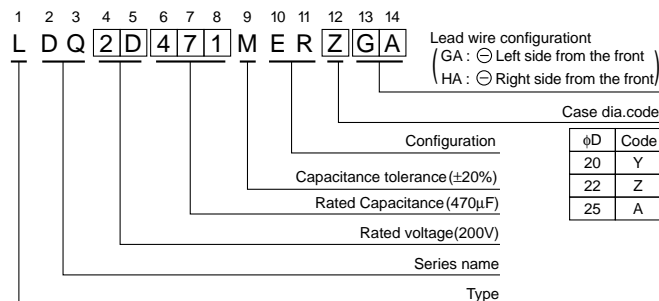
Specifications

Item	Performance Characteristics		
Category Temperature Range	- 40 ~ +105°C (200V) , - 25~+105°C (400V)		
Rated Voltage Range	200 ~400V		
Rated Capacitance Range	68 ~ 1200μF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Leakage Current	I ≤3√CV (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) 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 ZT/Z20(MAX.)	Z - 25°C/Z+20°C	3
		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 105°C, capacitors meet the characteristic requirements listed at right.		
	Capacitance change	Within ±20% of initial value	
	tan δ	200% or less of initial specified value	
Shelf Life	Leakage current	Initial specified value or less	
	After storing the capacitors under no load at 105°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 requirements listed at right.		
	Capacitance change	Within ±15% of initial value	
	tan δ	150% or less of initial specified value	
Marking	Leakage current	Initial specified value or less	
	Printed with white color letter on black sleeve.		

Drawing



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



Dimensions

V(Code)		200V (2D)			400V (2G)		
Cap. (μ F)	Code	20	22	25	20	22	25
68	680				20 \times 30	0.56	
82	820				20 \times 30	0.64	
100	101				20 \times 35	0.70	
120	121				20 \times 40	0.75	22 \times 35
150	151				20 \times 45	0.83	22 \times 40
180	181				20 \times 50	0.95	22 \times 45
220	221					22 \times 50	1.10
270	271	20 \times 30	1.10			22 \times 60	1.22
330	331	20 \times 35	1.20				25 \times 35
390	391	20 \times 40	1.31				25 \times 40
470	471	20 \times 45	1.45	22 \times 35	1.45		25 \times 45
560	561	20 \times 50	1.58	22 \times 40	1.60	25 \times 35	1.60
680	681			22 \times 45	1.78	25 \times 40	1.78
820	821			22 \times 60	2.04	25 \times 45	2.04
1000	102			25 \times 50	2.30		
1200	122			25 \times 60	2.65		
						Case size	Rated ripple
						$\phi D \times L$ (mm)	

* Other rating also available on request.

Rated Ripple (Arms) at 105°C, 120Hz

Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k	50k~
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.8100V