

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



105°C Horizontal Mounting Type

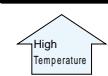
series



Smaller

- 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).

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



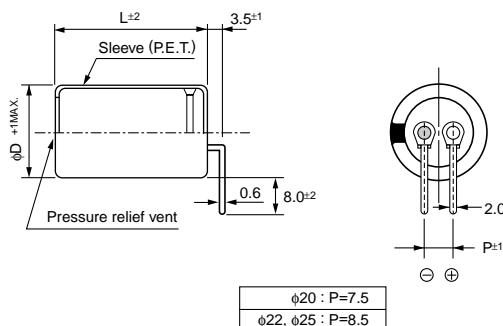
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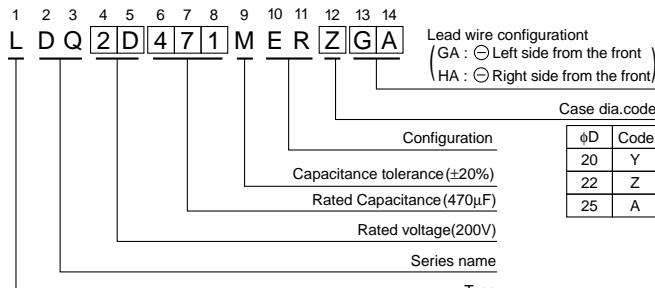
■ Specifications

Item	Performance Characteristics											
Category Temperature Range	- 40 to +105°C (200V), - 25 to +105°C (400V)											
Rated Voltage Range	200 ~ 400V											
Rated Capacitance Range	68 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)]											
Tangent of loss angle (tan δ)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>200</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>			Rated voltage (V)	200	400	tan δ (MAX.)	0.15	0.15			
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Endurance	<p>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 105°C, the peak voltage shall not exceed the rated voltage.</p> <table border="1"> <thead> <tr> <th>Capacitance change</th> <th>Within $\pm 20\%$ of initial value</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </tbody> </table>			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			
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Shelf Life	<p>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.</p> <table border="1"> <thead> <tr> <th>Capacitance change</th> <th>Within $\pm 15\%$ of initial value</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>150% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </tbody> </table>			Capacitance change	Within $\pm 15\%$ of initial value	tan δ	150% or less of initial specified value	Leakage current	Less than or equal to the initial specified value			
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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)	200V (2D)			400V (2G)		
		20	22	25	20	22	25
68	680				20×30	0.56	
82	820				20×30	0.64	
100	101				20×35	0.70	
120	121				20×40	0.75	0.75
150	151				20×45	0.83	0.88
180	181				20×50	0.95	0.95
220	221					22×50	1.10
270	271	20×30	1.10			22×60	1.22
330	331	20×35	1.20				25×50
390	391	20×40	1.31				1.44
470	471	20×45	1.45	22×35	1.45		
560	561	20×50	1.58	22×40	1.60	25×35	1.60
680	681			22×45	1.78	25×40	1.78
820	821			22×60	2.04	25×45	2.04
1000	102				25×50	2.30	
1200	122				25×60	2.65	
							Case size ØD×L (mm) Rated ripple

※ 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 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