ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



5mmL, Wide Temperature Range

Anti-Solvent Feature

Wide temperature range of -55 to +105°C, with 5mm height.
 Compliant to the RoHS directive (2011/65/EU).

Values marked with an \times in the dimension table are scheduled to be discontinued and are not recommended for new designs.



UMA



Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C											
Voltage Range	4 to 50V											
Rated Capacitance Range	0.1 to 100µF											
Rated Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.											
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)) 4	6.3		10	16	25		35	50	Figures in () are for
	tan δ (MAX.)	0.37	0.28		0.24	0.20	0.16	0.13	(0.14)	0.12 (0.14)	φ 3 product.	
	Measurement frequency : 120Hz											
	Rated voltage (V)				6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z–25°C / Z+	+20°C	6	3	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	12	8	5	4	3	3	3]	
Fadamaaa	The specifications listed at right shall be met when the capacitors are restored to 20°C Capacitance change Within ±25% of the initial capacitance value (♦ 3mm unit,and ≦ Within ±20% of the initial capacitance value (≥ 25V)									ınit,and ≦ 16V)		
Endurance	after the rated voltage is applied for 1000 hours at 105°C.				tan δ 200% or less than the initial specified value							
					Leakage o	current	Less than or equal to the initial specified value					
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.											
Marking	Printed with white color letter on black sleeve.											

Radial Lead Type



• Please refer to page 20 about the end seal configuration.



 φ D
 Pb-free leadwire Pb-free PET sleeve

 3
 CD

 4 to 6.3
 DD

%2 For φ 3mm unit, place size code of 2 to 12th digit.

Dimensions

\sim	V	4		6.3		10		16		25		35		50	
Cap.(µF)	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1						1						1	*•4×5	1.0(1.0)
0.22	R22		l		1						i		1	*•4×5	2.6(2.6)
0.33	R33		1		1		i I				1		1	*•4×5	3.2(3.2)
0.47	R47						1							*•4×5	3.8(3.8)
1	010						i							•4×5	6.2(5.9)
2.2	2R2		 		 		1		1		1	3 × 5	7.5	•4×5	¦ 11 (9)
3.3	3R3											• 4 × 5	11 (9)	4×5	14
4.7	4R7						1			•4×5	13 (10)	4 ×5	15	5×5	19
10	100						1	•4×5	18 (14)	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48		
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48		1		1
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50				1	Case size	Rated
100	101	6.3×5	60	6.3 × 5	60									φD×L (mm)	ripple

Size $\varphi3\times5$ is available for capacitors marked " \bullet " Figures in (~) are for φ 3 product.

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more					
Coefficient	0.70	1.00	1.17	1.36	1.50					

Rated ripple current (mArms) at 105°C 120Hz

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

