ALUMINUM ELECTROLYTIC CAPACITORS

nichicon





- Chip type with 3.0mmL height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

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





Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	4 to 25V										
Rated Capacitance Range	2.2 to 100µF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater.										
Tangent of loss angle (tan δ)	Rated voltage (V)		4	6.3	10	16	25	120Hz 2	20°C		
	tan δ (MAX.)		0.50	0.40	0.30	0.24	0.19				
Stability at Low Temperature	Rated voltage (V)		4	6.3	10	16	25	120Hz			
	Impedance ratio	Z-25°C / Z+20°C	7	4	3	2	2				
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	15	8	8	4	4				
Endurance	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value										
	$\begin{array}{c} \mbox{capacitors are restored to 20°C after the rated voltage is} & \mbox{tan } \delta \\ \mbox{applied for 1000 hours at 85°C.} & \mbox{Leakage current} \end{array}$							300% or less than the initial specified val			
								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 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.										
Resistance to soldering heat	250°C. The cap	acitors shall me	t plate for 30 seconds, which is maintained at t the characteristic requirements listed at m the plate and restored to 20°C.			$\tan \delta$ Less than or equal to the initia		Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value			
Marking	Black print on the case top.										

Chip Type



Dimensions

	V	4		6.3		10		16		25	
Cap. (μF)	Code	0G		OJ		1A		1C		1E	
2.2	2R2				1					4	7
3.3	3R3				1					4	11
4.7	4R7				i I		1		i i	4	16
5.6	5R6									5	18
6.8	6R8				1				i	5	20
10	100		1 1 1		1			5	23	6.3	27
22	220	4	20	5	28	5	33	6.3	37		
33	330	5	28	5	37	6.3	41		1		
47	470	5	33	6.3	45		1			Case size ∳D (mm)	Rated ripple
100	101	6.3	56	6.3	70						
									Rated ripple c	urrent (mArms)	at 85°C 120H

• 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

- Taping specifications are given in page 23.
- Recommended land size soldering by reflow are given in page 18,19.

Type numbering system (Example : 16V 10µF)

• Please refer to page 3 for the minimum order quantity.

