CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS nichicon







•High Reliability, Low ESR,High ripple current.

- •Long life of 4000 hours at 125°C.
- •Adapted to the RoHS directive (2011/65/EU,(EU)2015/863).
- •AEC-Q200 compliant. Please contact us for details.

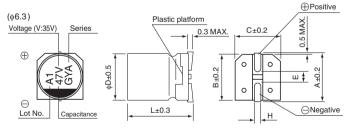


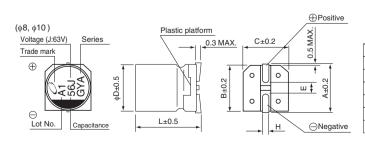


Specifications

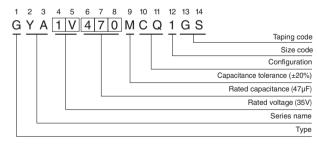
Item	Performance Characteristics								
Category Temperature Range	-55 to +125°C								
Rated Voltage Range	16 to 63V								
Rated Capacitance Range	10 to 470µF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan $\delta)$	Rated voltage (V) 16 25 35 50 63 120Hz 20°C tan & (MAX.) 0.16 0.14 0.12 0.10 0.08 120Hz 20°C								
ESR	Less than or equal to the specified value at 100kHz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage cur	rrent is not mor	e than 0.01CV(μA).						
Temperature Characteristics (Max.Impedance Ratio)	$Z-25^{\circ}C/Z+20^{\circ}C \leq 2$ $Z-55^{\circ}C/Z+20^{\circ}C \leq 2.5$ (100kHz)								
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 4000 hours (2000 hours for ϕ 6.3 rated at 16V) at 125°C, the peak voltage shall not exceed the rated voltage.	Capacitance c tan δ ESR Leakage curren	200% or less of the initial specified value 200% or less of the initial specified value						
Shelf Life	After storing the capacitors under no load at 125°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.								
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C, 85% RH. Capacitance change Within±30% of the initial capacitance change Leakage current Less than or equal to the initial								
Resistance to Soldering Heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.	Capacitance cl tan δ Leakage currer	Less than or equal to the initial specified value						
Marking	Black print on the case top.								

Dimensions





Type numbering system (Example : 35V 47 $\mu\text{F})$



				(mm)
∳D×L	$\phi 6.3 \times 5.8$	φ6.3×7.7	φ8 × 10	$\phi 10 \times 10$
Α	7.3	7.3	9.0	11.0
В	6.6	6.6	8.3	10.3
С	6.6	6.6	8.3	10.3
Е	2.2	2.2	3.1	4.5
L	5.8	7.7	10.3	10.3
Н	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

(mm) Voltage

	VUILA	ye				
	V	16	25	35	50	63
	Code	С	Е	V	н	J
1						

** \u03c6 6.3x7.7L, \u03c68.10L, \u03c610.x10L : The vibration structure-resistant product is also available upon request, please ask for details.

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Dimensions

V (Code) C _o Cap.(µF)		16 1C			25 1E		35 1V		50		63 1J					
									1H							
10	100													6.3 × 5.8	120	700
22	220										6.3 × 5.8	80	750	6.3 × 7.7	80	900
33	330										6.3 × 7.7	40	1100	8 × 10	40	1100
47	470							6.3 × 5.8	60	900						
56	560			1	6.3 × 5.8	50	900							10 × 10	30	1400
68	680							6.3 × 7.7	35	1400	8 × 10	30	1250			
82	820	6.3 × 5.8	50	1000												
100	101			1	6.3 × 7.7	30	1400			1	10 × 10	28	1600			1
150	151	6.3 × 7.7	30	1500				8×10	27	1600						
220	221			1	8 × 10	27	1600						-			
270	271	8 × 10	25	1700				10 × 10	20	2000						
330	331			- - - -	10 × 10	20	2000								ESR	Ripple
470	471	10 × 10	20	2100			 							φD×L	mΩ	mArms

ESR at 20°C 100kHz Rated ripple Current at 125°C 100kHz

• Frequency coefficient of rated ripple current

Frequency	120Hz	1kHz	10kHz	100kHz or more	
Coefficient	0.15	0.40	0.75	1.00	

• Taping specifications are given in page 23.

• Recommended land size, soldering by reflow are given

in page 18,19.

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