

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS nichicon

GYA

Chip Type, 125°C High Reliability



- High Reliability, Low ESR, High ripple current.
- Long life of 4000 hours at 125°C.
- Adapted to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.

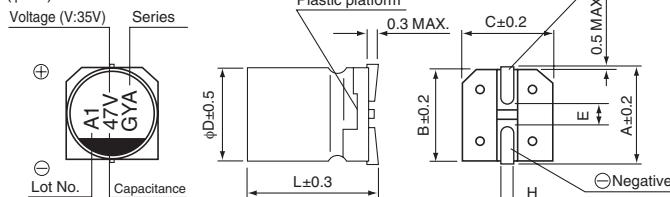


■ Specifications

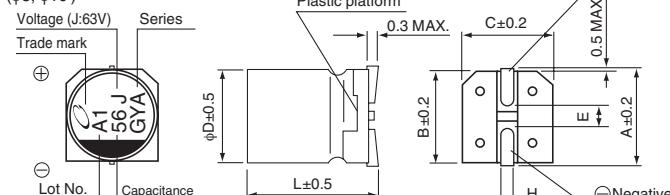
Item	Performance Characteristics								
Category Temperature Range	-55 to +125°C								
Rated Voltage Range	25 to 63V								
Rated Capacitance Range	10 to 330μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan δ)	Rated voltage (V)	25	35	50	63				
	tan δ (MAX.)	0.14	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 current is not more than 0.01CV(μA).								
Temperature Characteristics (Max.Impedance Ratio)	Z-25°C / Z+20°C ≤ 2 Z-55°C / Z+20°C ≤ 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 at 125°C, the peak voltage shall not exceed the rated voltage.								
	Capacitance change	Within ± 30% of initial capacitance value							
	tan δ	200% or less of the initial specified value							
	ESR	200% or less of the initial specified value							
	Leakage current	Less than or equal to 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 value							
	tan δ	200% or less of the initial specified value							
	Leakage current	Less than or equal to the initial specified value							
Resistance to Soldering Heat	After soldering the Capacitor, After restored at room temperature, they meet the characteristics requirements listed below.								
	Capacitance change	Within ± 10% of the initial capacitance value							
	tan δ	Less than or equal to the initial specified value							
	Leakage current	Less than or equal to the initial specified value							
Marking	Black print on the case top.								

■ Dimensions

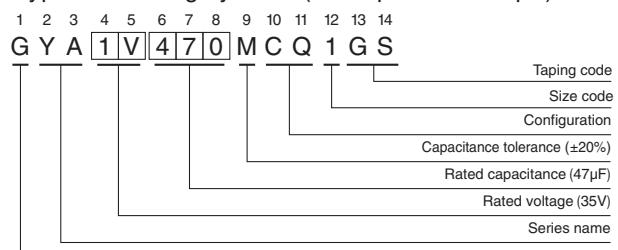
(φ6.3) Voltage (V:35V) Series



(φ8, φ10) Voltage (J:63V) Series



Type numbering system (Example : 35V 47μF)



(ΦD×L)	φ6.3×5.8	φ6.3×7.7	φ8×10	φ10×10
A	7.3	7.3	9.0	11.0
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5
L	5.8	7.7	10.3	10.3
H	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Voltage	V	25	35	50	63
Code	E	V	H	J	

* φ8×10L, φ10×10L :
The vibration structure-resistant product is also available upon request, please ask for details.

■ Dimensions

V	25	35	50	63
Cap. (μF) \ Code	1E	1V	1H	1J
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	6.3×5.8 50 900			10×10 30 1400
68 680		6.3×7.7 35 1400	8×10 30 1250	
100 101	6.3×7.7 30 1400		10×10 28 1600	
150 151		8×10 27 1600		
220 221	8×10 27 1600			
270 271		10×10 20 2000		
330 331	10×10 20 2000			

ΦD×L	ESR	Ripple
	mΩ	m Arms

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.