

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

GYC Chip Type, 135°C High Reliability



NEW

- High Reliability, Low ESR, High ripple current.
- Long life of 2000 to 4000 hours at 135°C.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.

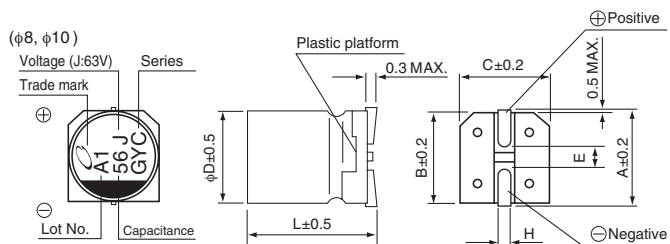
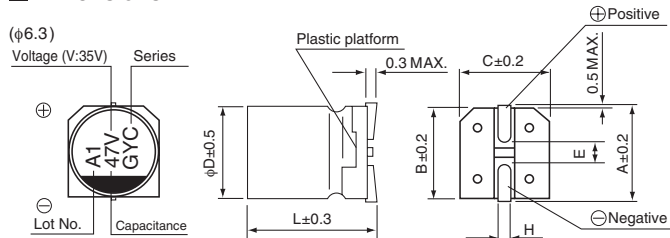
GYC ← High Temperature → **GVA**



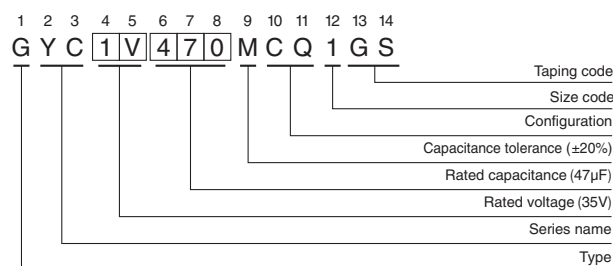
Specifications

Item	Performance Characteristics		
Category Temperature Range	-55 to +135°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	
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 (2000 hours for φD = 6.3) at 125°C or 135°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 135°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 2000 hours (1000 hours for φD = 6.3) 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 at right.	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



Type numbering system (Example : 35V 47μF)



	(mm)			
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

Design, Specifications are subject to change without notice.

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■ Dimensions

V (Code) Code Cap.(μF)		25				35				50			
		1E				1V				1H			
10	100												
22	220									6.3 × 5.8	80	1100	750
33	330									6.3 × 7.7	45	1600	1100
47	470					6.3 × 5.8	60	1400	900				
56	560	6.3 × 5.8	50	1400	900								
68	680					6.3 × 7.7	40	1900	1400	8 × 10	30	2200	1250
100	101	6.3 × 7.7	35	1900	1400					10 × 10	28	2600	1600
150	151					8 × 10	27	2900	1600				
220	221	8 × 10	27	2900	1600								
270	271					10 × 10	20	3300	2000	φD×L	ESR mΩ	Rated ripple Current (mA _{rms})	
330	331	10 × 10	20	3300	2000							125°C	135°C

V (Code) Code Cap.(μF)		63			
		1J			
10	100	6.3 × 5.8	120	1000	700
22	220	6.3 × 7.7	80	1300	900
33	330	8 × 10	40	1900	1100
47	470				
56	560	10 × 10	30	2300	1400
68	680				
		φD×L	ESR mΩ	Rated ripple Current (mA _{rms})	
				125°C	135°C

ESR at 20°C 100kHz
 Rated ripple Current at 125°C or 135°C 100kHz

● Frequency coefficient of rated ripple current

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

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