CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS michicon



Chip Type, 105°C High Reliability









Anti-Solvent Feature

• High Reliability, Low ESR, High ripple current.

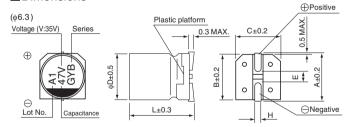
- ●Long life of 10000 hours at 105°C.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- •AEC-Q200 compliant. Please contact us for details.

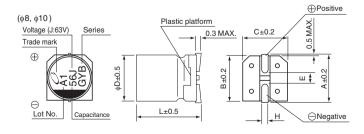


■Specifications

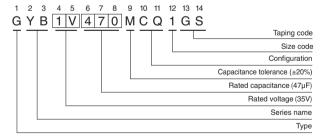
Item	Performance Characteristics								
Category Temperature Range	-55 to +105°C								
Rated Voltage Range	25 to 63V								
Rated Capacitance Range	10 to 330μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan δ)	Rated voltage (V) 25 35 50 63 tan δ (MAX.) 0.14 0.12 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^{\circ}C / Z+20^{\circ}C \le 2 $								
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 10000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	Capacitance change tan δ ESR Leakage current	Within ± 30% of initial capacitance value 200% or less of the initial specified value 200% or less of the initial specified value 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.								
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 tan δ Leakage current	Within±30% of the initial capacitance value 200% or less of the initial specified value Less than or equal to the initial specified value						
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 change tan δ Leakage current	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.								

■ Dimensions





Type numbering system (Example: 35V 47µF)



				(mm
φD×L	φ6.3×5.8	φ6.3×7.7	ф8×10	φ10×10
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

Voltage									
V	25	35	50	63					
Code	Е	V	Н	J					

[#] $\varphi6.3\times7.7L,$ $\varphi8\times10L,$ $\varphi10\times10L$: The vibration structure-resistant product

is also available upon request, please ask for details.





Dimensions

V (Code)		25		35		50		63					
Cap.(µF)) _Q _©		1E			1V			1H			1J	
10	100			i ! !		: ! !					6.3 × 5.8	120	1000
22	220			i i i		! !	 	6.3 × 5.8	80	1100	6.3 × 7.7	80	1500
33	330							6.3 × 7.7	40	1600	8 × 10	40	1600
47	470			! ! !	6.3 × 5.8	60	1300						1
56	560	6.3 × 5.8	50	1300		 	 		 		10 × 10	30	1800
68	680			1	6.3 × 7.7	35	2000	8 × 10	30	1800			1
100	101	6.3 × 7.7	30	2000		! ! !	1	10 × 10	28	2000			
150	151			! ! !	8 × 10	27	2300		 				 - -
220	221	8 ×10	27	2300		! !	1						1
270	271			! !	10 × 10	20	2500				+D. I	ESR	Ripple
330	331	10×10	20	2500		1	1				φD×L	mΩ	mArms

ESR at 20°C 100kHz Rated ripple Current at 105°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.