CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS michicon





Chip Type, 135°C High Reliability















- •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,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

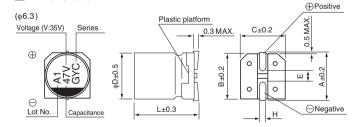


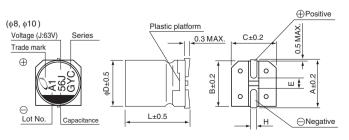


■Specifications

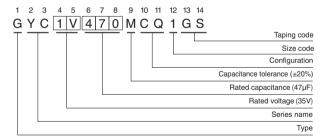
Item	Performance Characteristics						
Category Temperature Range	−55 to +135°C						
Rated Voltage Range	25 to 63V						
Rated Capacitance Range	10 to 330μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Tangent of loss angle (tan δ)	Rated voltage (V) 25 35 50 63 tan δ (MAX.) 0.14 0.12 0.10 0.08						
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 curr	rent is not more than 0	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 $						
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 $\phi D = 6.3$) at 125°C or 135°C, the peak voltage shall not exceed the rated voltage.	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 135°C for 1000 hour clause 4.1 at 20°C, they shall meet the specified values for the en						
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 ϕ D = 6.3) at 85°C, 85% RH. Capacitance change Within±30% of the initial capacitance value $\tan \delta$ 200% or less of the initial specified value Leakage current Less than or equal to the initial specified value						
Resistance to Soldering Heat	which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are	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
	∳D×L	φ6.3×5.8	φ6.3×7.7	φ8×10	φ10×10
	Α	7.3	7.3	9.0	11.0
	В	6.6	6.6	8.3	10.3
ı	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			

The vibration structure-resistant product is also available upon request, please ask for details.





■ Dimensions

V (Code) Coo Cap.(µF)		25 1E			35 1V			50 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				1
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				1	10 ×10	20	3300	2000	φD×L	ESR mΩ	Rated ripp (mA	ole Current rms)
330	331	10×10	20	3300	2000				 			125℃	135℃

	V (Code)	63					
Cap.(µF)	Dae Dae	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 (mArms)			
				125℃	135℃		

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			

- 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.