

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

GYD Chip Type, 150°C High Reliability



NEW

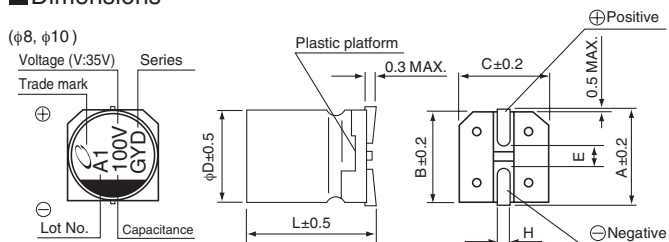
- High Reliability, Low ESR, High ripple current.
- Long life of 1000 hours at 150°C.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



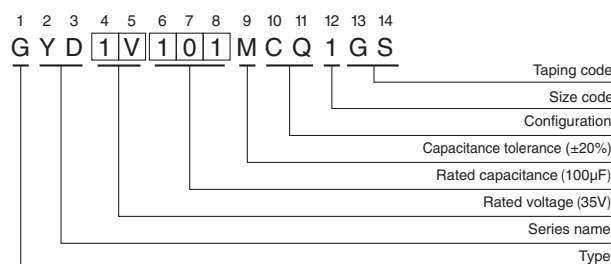
Specifications

Item	Performance Characteristics			
Category Temperature Range	-55 to +150°C			
Rated Voltage Range	25 to 35V			
Rated Capacitance Range	100 to 270μF			
Capacitance Tolerance	±20% at 120Hz, 20°C			
Tangent of loss angle (tan δ)	Rated voltage (V)	25 35		
	tan δ (MAX.)	0.14 0.12		
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 1000 hours at 150°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
Shelf Life	After storing the capacitors under no load at 150°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)			
	Resistance to Soldering Heat			
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 at 85°C, 85% RH.			
			Capacitance change	Within±30% of the initial capacitance value
			tan δ	200% or less of 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	Within±10% of the initial capacitance value
			tan δ	Less than or equal to the initial specified value
Marking	Black print on the case top.			
			Leakage current	Less than or equal to the initial specified value
			Leakage current	Less than or equal to the initial specified value

Dimensions



Type numbering system (Example : 35V 100μF)



Dimensions

Cap.(μF)	Code	25			35		
		V	1E	1V	V	1E	1V
100	101				8 × 10	27	1400
150	151	8 × 10	27	1400	10 × 10	20	1800
220	221				Case size φD × L (mm)	ESR mΩ	Ripple mArms
270	271	10 × 10	20	1800			

φD×L	(mm)		Voltage		
	φ8 × 10	φ10 × 10	V	25	35
A	9.0	11.0			
B	8.3	10.3			
C	8.3	10.3			
E	3.1	4.5			
L	10.3	10.3			
H	0.8 to 1.1	0.8 to 1.1			

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

ESR at 20°C 100kHz
Rated ripple Current at 150°C 100kHz

Frequency coefficient of rated ripple current

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

Design, Specifications are subject to change without notice.