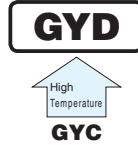


GYD Chip Type, 150°C High Reliability



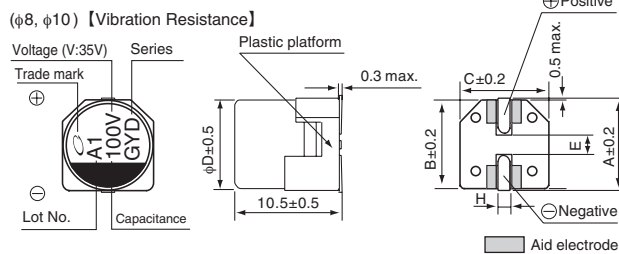
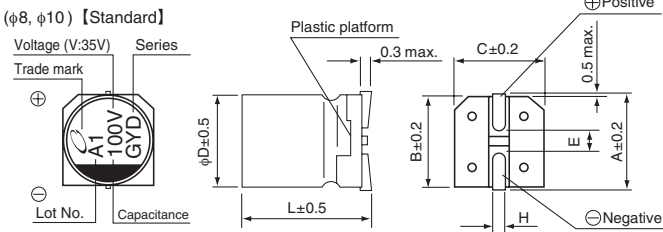
- High Reliability, Low ESR, High ripple current.
- Long life of 1000 hours at 150°C.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



■ Specifications

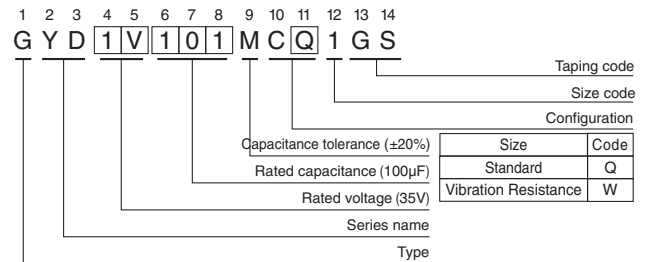
Item	Performance Characteristics									
Category Temperature Range	-55 to +150°C									
Rated Voltage Range	25 to 35V									
Rated Capacitance Range	100 to 270μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Tangent of loss angle (tan δ)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>25</td> <td>35</td> <td rowspan="2">120Hz 20°C</td> </tr> <tr> <td>tan δ (max.)</td> <td>0.14</td> <td>0.12</td> </tr> </table>		Rated voltage (V)	25	35	120Hz 20°C	tan δ (max.)	0.14	0.12	
Rated voltage (V)	25	35	120Hz 20°C							
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)	$Z(-25^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 2$ $Z(-55^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 2.5$ (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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 30% of initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of the initial specified value</td> </tr> <tr> <td>ESR</td> <td>200% or less of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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
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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 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)	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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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		
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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	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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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		
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



※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Type numbering system (Example : 35V 100μF)



Standard	(mm)		Voltage	Vibration Resistance (mm)		
	φD×L	8×10		10×10	φD×L	8×10
A	9.0	11.0	V 25 35 Code E V	A	9.0	11.0
B	8.3	10.3		B	8.3	10.3
C	8.3	10.3	C	8.3	10.3	
E	3.1	4.5	E	3.1	4.5	
L	10.3	10.3	L	10.5	10.5	
H	0.8 to 1.1	0.8 to 1.1	H	1.1 to 1.5	1.1 to 1.5	

● Frequency coefficient of rated ripple current

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

● Dimension table in next page.



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	ESR (mΩ) max. (20°C/100kHz)	Rated Ripple (mArms) (150°C/100kHz)	Part Number
25 (1E)	150	8×10	0.14	37.5	27	1400	GYD1E151MC□1GS
	270	10×10	0.14	67.5	20	1800	GYD1E271MC□1GS
35 (1V)	100	8×10	0.12	35.0	27	1400	GYD1V101MC□1GS
	150	10×10	0.12	52.5	20	1800	GYD1V151MC□1GS

□ : Enter the appropriate configuration code.

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.