

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

GYE

Chip Type, 125°C High Reliability



TENTATIVE

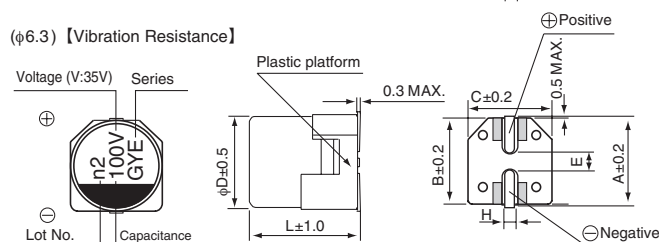
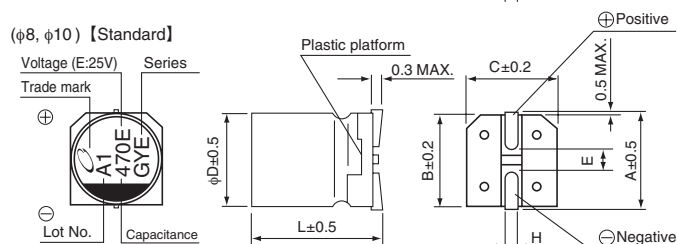
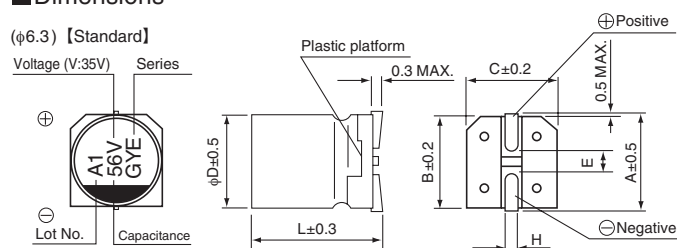
- High Reliability, Low ESR, High ripple current.
- Long life of 4000 hours at 125°C, High Capacitance.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



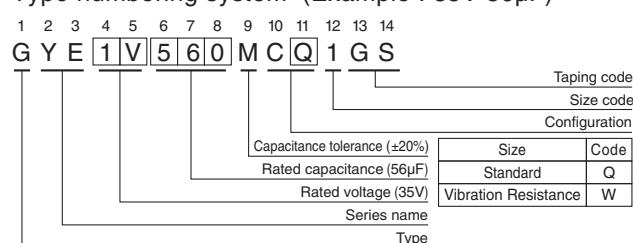
Specifications

Item	Performance Characteristics			
Category Temperature Range	-55 to +125°C			
Rated Voltage Range	25 to 35V			
Rated Capacitance Range	56 to 470μF			
Capacitance Tolerance	±20% at 120Hz, 20°C			
Tangent of loss angle (tan δ)	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°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 at 125°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 125°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.		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	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
			Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.			

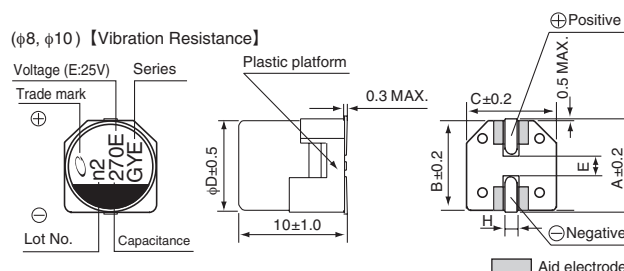
Dimensions



Type numbering system (Example : 35V 56μF)



Standard (mm)				Vibration Resistance (mm)			
φ6.3	φ6.3	φ6.3	φ6.3	φ6.3	φ6.3	φ6.3	φ6.3
A	7.3	7.3	9.0	A	7.3	9.0	11.0
B	6.6	6.6	8.3	B	6.6	8.3	10.3
C	6.6	6.6	8.3	C	6.6	8.3	10.3
E	2.2	2.2	3.1	E	2.2	3.1	4.5
L	5.8	7.7	10.3	L	7.7	10	10
H	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	H	0.5 to 0.8	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

Design, Specifications are subject to change without notice.

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GYE

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 2 minutes)	ESR (m Ω) MAX. (20°C/100kHz)	Rated Ripple (mA _{rms}) (125°C/100kHz)	Part Number
25 (1E)	68	6.3 $\times$ 5.8	0.14	17	50	1100	GYE1E680MCQ1GS
	150	6.3 $\times$ 7.7	0.14	38	30	1700	GYE1E151MC□1GS
	270	8 $\times$ 10	0.14	68	27	2000	GYE1E271MC□1GS
	470	10 $\times$ 10	0.14	118	20	2400	GYE1E471MC□1GS
35 (1V)	56	6.3 $\times$ 5.8	0.12	20	60	1100	GYE1V560MCQ1GS
	100	6.3 $\times$ 7.7	0.12	35	35	1700	GYE1V101MC□1GS
	180	8 $\times$ 10	0.12	63	27	2000	GYE1V181MC□1GS
	330	10 $\times$ 10	0.12	116	20	2400	GYE1V331MC□1GS

□ : Enter the appropriate configuration code.

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NICHICON CORPORATION