

GYE

Chip Type, 125°C High Reliability



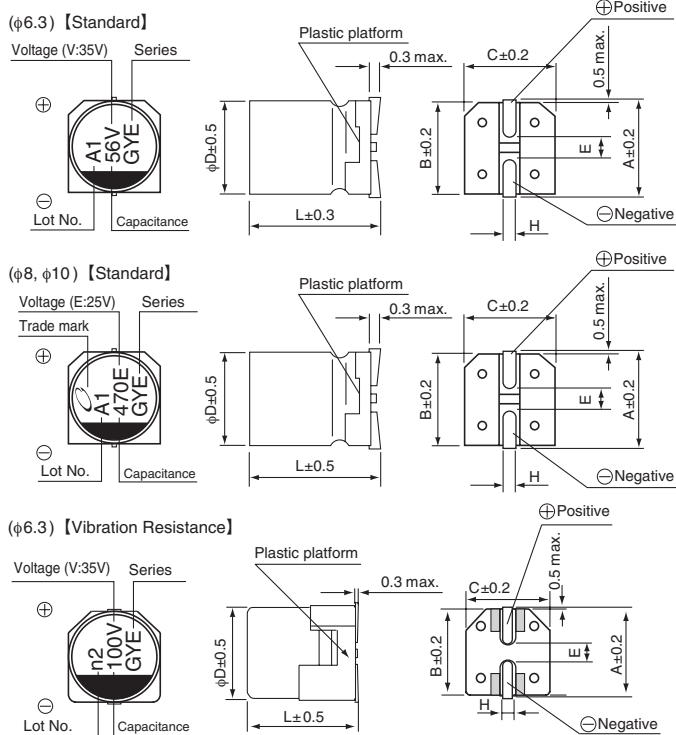
- High Reliability, Low ESR, High ripple current.
- Long life of 4000 hours at 125°C, High Capacitance.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



Specifications

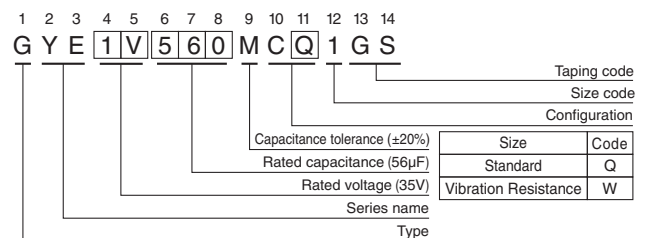
Item	Performance Characteristics	
Category Temperature Range	-55 to +125°C	
Rated Voltage Range	25 to 35V	
Rated Capacitance Range	56 to 470μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Tangent of loss angle (tan δ)	Rated voltage (V)	25 35
	tan δ (max.)	0.14 0.12
ESR	Less than or equal to the specified 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
	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
	Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.	

Dimensions

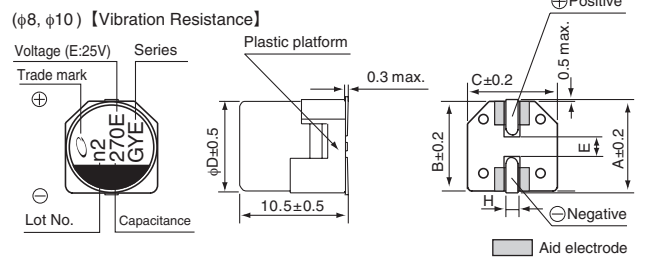


※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Type numbering system (Example : 35V 56μF)



Standard	(mm)				Voltage	Vibration Resistance (mm)			
	6.3x5.8	6.3x7.7	8x10	10x10		φ6.3	8x10	10x10	
A	7.3	7.3	9.0	11.0	V 25 35	A	7.3	9.0	11.0
B	6.6	6.6	8.3	10.3		B	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3	Code E V	C	6.6	8.3	10.3
E	2.2	2.2	3.1	4.5		E	2.2	3.1	4.5
L	5.8	7.7	10.3	10.3	L	7.7	10.5	10.5	
H	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	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

● Dimension table in next page.

GYE

■ 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 (mA rms) (125°C/100kHz)	Part Number
25 (1E)	68	6.3×5.8	0.14	17.0	50	1100	GYE1E680MCQ1GS
	82	6.3×5.8	0.14	20.5	50	1100	GYE1E820MCQ1GS
	150	6.3×7.7	0.14	37.5	30	1700	GYE1E151MC□1GS
	270	8×10	0.14	67.5	27	2000	GYE1E271MC□1GS
	470	10×10	0.14	117.5	20	2800	GYE1E471MC□1GS
35 (1V)	56	6.3×5.8	0.12	19.6	60	1100	GYE1V560MCQ1GS
	100	6.3×7.7	0.12	35.0	35	1700	GYE1V101MC□1GS
	180	8×10	0.12	63.0	27	2000	GYE1V181MC□1GS
	330	10×10	0.12	115.5	20	2800	GYE1V331MC□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.