

# GQB Series

- Endurance with ripple current : 1,000 hours at 150°C
- For automobile transmission, electric water pump and other high temperature applications.
- Rated voltage range : 25 & 35V, Nominal capacitance range : 560 to 3,600μF
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

Higher temperature  
Higher ripple current → **GQB**

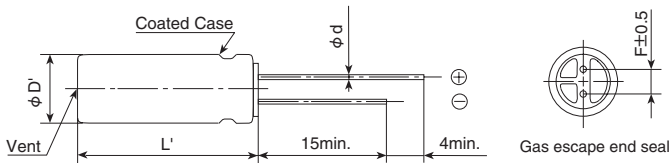


## SPECIFICATIONS

Items	Characteristics		
Category	-40 to +150°C		
Temperature Range	-40 to +150°C		
Rated Voltage Range	25, 35V <sub>dc</sub>		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I=0.03CV or 4μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C, 1 minute)		
Dissipation Factor (tan δ)	Rated voltage (V <sub>dc</sub> )	25V	35V
	tan δ (Max.)	0.14	0.12
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	25V	35V
	Z(-25°C)/Z(+20°C)	2	2
	Z(-40°C)/Z(+20°C)	4	4
	(at 120Hz)		
Endurance 1	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 1,000 hours at 150°C.		
	Capacitance change	≤ ±30% of the initial value	
	D.F. (tan δ)	≤300% of the initial specified value	
	Leakage current	≤The initial specified value	
Endurance 2	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 125°C.		
	Capacitance change	≤ ±30% of the initial value	
	D.F. (tan δ)	≤300% of the initial specified value	
	Leakage current	≤The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 150°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.		
	Capacitance change	≤ ±30% of the initial value	
	D.F. (tan δ)	≤300% of the initial specified value	
	Leakage current	≤The initial specified value	

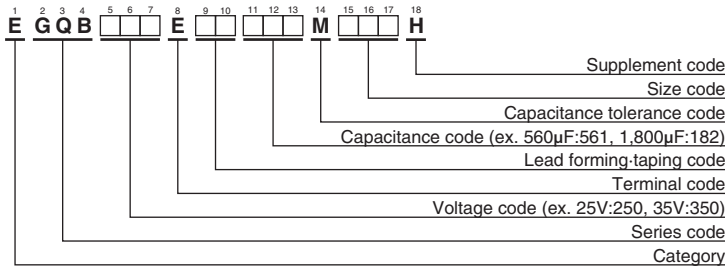
## DIMENSIONS [mm]

- Terminal Code : E



φD	12.5	16	18
φd	0.6	0.8	0.8
F	5.0	7.5	7.5
φD'	φD±0.5		
L'	L <sup>+</sup> 1.5 L <sup>-</sup> 1.0		

## PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

**GQB**Series

◆STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Case size φ D×L(mm)	tan δ	ESR (Ω max./100kHz)		Rated ripple current (mA <sub>rms</sub> /100kHz)		Part No.
				20°C	-40°C	150°C	125°C	
25	1,100	12.5 × 20	0.14	0.12	1.4	1,100	2,620	EGQB250E□□112MK20H
	1,600	12.5 × 25	0.14	0.080	1.0	1,300	2,910	EGQB250E□□162MK25H
	1,800	16 × 20	0.14	0.070	1.0	1,460	3,590	EGQB250E□□182ML20H
	2,400	18 × 20	0.16	0.058	0.90	1,560	3,830	EGQB250E□□242MM20H
	2,700	16 × 25	0.16	0.050	0.80	1,720	4,560	EGQB250E□□272ML25H
	3,600	18 × 25	0.18	0.042	0.70	1,800	4,800	EGQB250E□□362MM25H
35	560	12.5 × 20	0.12	0.15	4.5	1,000	2,230	EGQB350E□□561MK20H
	750	12.5 × 25	0.12	0.12	3.4	1,200	2,680	EGQB350E□□751MK25H
	910	16 × 20	0.12	0.10	3.0	1,260	3,110	EGQB350E□□911ML20H
	1,200	18 × 20	0.12	0.084	2.0	1,320	3,250	EGQB350E□□122MM20H
	1,400	16 × 25	0.12	0.067	2.0	1,600	4,060	EGQB350E□□142ML25H
	1,800	18 × 25	0.12	0.058	1.4	1,680	4,500	EGQB350E□□182MM25H

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF) \ Frequency(Hz)	120	1k	10k	100k
560	0.50	0.85	0.94	1.00
750 to 1,800	0.60	0.87	0.95	1.00
2,400 to 3,600	0.75	0.90	0.95	1.00

Please contact us for lifetime estimation.