

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
GPD → **GQB**

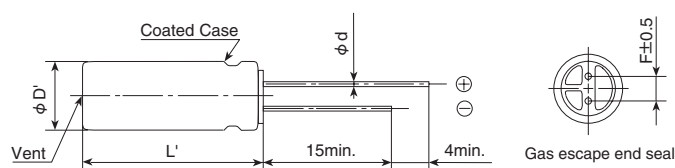


SPECIFICATIONS

Items	Characteristics			
Category	-40 to +150℃			
Temperature Range				
Rated Voltage Range	25, 35V _{dc}			
Capacitance Tolerance	± 20% (M)			(at 20℃, 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℃, 1 minute)			
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	25V	35V	(at 20℃, 120Hz)
	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.			
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	25V	35V	(at 120Hz)
	Z(-25℃)/Z(+20℃)	2	2	
	Z(-40℃)/Z(+20℃)	4	4	
Endurance 1	The following specifications shall be satisfied when the capacitors are restored to 20℃ 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℃.			
	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℃ 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℃.			
	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℃ after exposing them for 500 hours at 150℃ 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		

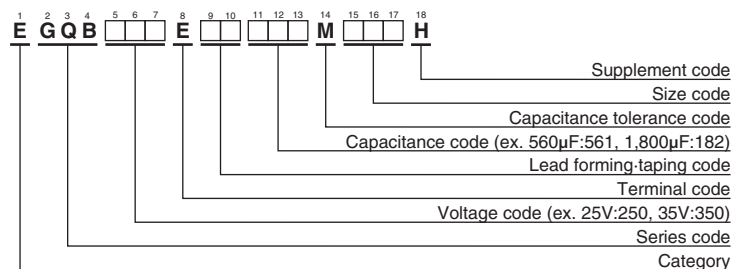
DIMENSIONS [mm]

- 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 ^{+1.5} -1.0		

PART NUMBERING SYSTEM



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

GQB Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φ D×L(mm)	tan δ	ESR (Ω max./100kHz)		Rated ripple current (mA _{rms} /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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

[EGQB250ELL112K20H](#) [EGQB250ELL162K25H](#) [EGQB250ELL182L20H](#) [EGQB250ELL242M20H](#)
[EGQB250ELL272L25H](#) [EGQB250ELL362M25H](#) [EGQB350ELL122M20H](#) [EGQB350ELL142L25H](#)
[EGQB350ELL182M25H](#) [EGQB350ELL561K20H](#) [EGQB350ELL751K25H](#) [EGQB350ELL911L20H](#)