

GQBSeries

- 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.

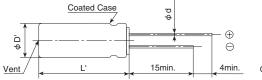
Higher temperature Higher ripple current GQB R 1500 25v

SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +150℃							
Rated Voltage Range	25, 35V₀c							
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)							
Leakage Current	I=0.03CV or 4µA, whichever is greater.							
	Where, I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) (at 20°C, 1 minute)							
Dissipation Factor	Rated voltage (Vdc)	25V	35V					
(tan δ)	tan δ (Max.)	0.14	0.12					
	When nominal capacitano	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 12°C)						
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	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	≤±						
	D.F. (tan δ)	≦30	0% of t	he initial specified value				
	Leakage current	≦Th	e 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)	≦30	0% of t	he initial specified value				
	Leakage current	≦Th	e initia	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	≦±3	30% of	the initial value				
	D.F. (tan δ)	≦30	0% of t	he initial specified value				
	Leakage current	≦Th	e initia	specified value				

◆DIMENSIONS [mm]

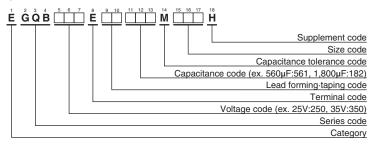
●Terminal Code : E





φD	12.5	16	18				
φd	0.6	0.8	0.8				
F	5.0	7.5	7.5				
φD'	φD±0.5						
L'	, +1.5						
_	L -1.0						

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

WV (V _{dc})		Case size	tan δ	ESR (Ω max./100kHz)		Rated ripple current (mArms/100kHz)		Part No.
		φD×L(mm)		20℃	-40℃	150℃	125℃	
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

 $[\]square$: 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

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.

Please contact us for lifetime estimation.