- Structure of higher vibration resistance by GPD series (acceleration 392m/s², 40G)
- Guaranteed short time at 150℃
- ODesigned for electric power steering and ECU (include engine control, direct fuel injection) etc.
- Rated voltage range: 25 to 100V, Capacitance range: 510 to 8,200μF
- Solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

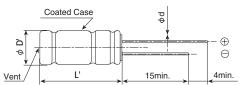
Vibration resistance **GVD**

♦SPECIFICATIONS

Items	Characteristics											
Category Temperature Range	-40 to +135℃											
Rated Voltage Range	25 to 100V _{dc}											
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 (Vdc)	ed voltage (V _{dc}) 25V 35V 50V 63V 80V 100V										
	tan δ (Max.)	0.14	0.12	0.10	0.10	0.08	0.08					
	When nominal capacitan	ce exce	eds 1,	000μF,	add 0	.02 to t	he valu	ie above for each 1,000μF increase.	(at 20°C, 120	0Hz)		
Low Temperature Characteristics	Rated voltage (Vdc)	25V	35V	50V	63V	80V	100V					
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2					
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	4	4	4	4	4	4		(at 120	0Hz)		
Endurance 1		ns shall	l be sa	atisfied	when	the car	acitors	s are restored to 20°C after subjected to DC vo				
	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 the specified period of time at 125°C or 135°C.											
	Time	125℃	25 t	o 100V	dc: 3,00	00hours	3					
		125°C 25 to 100V _{dc} : 3,000hours 135°C 25 to 50V _{dc} : 3,000hours										
		63 to 100V _{dc} : 2,000hours										
	Capacitance change	≦±30% of the initial value										
	D.F. (tan δ)	≦300% of the initial specified value										
	Leakage current	≦The	initia	specif	ied val	ue						
Endurance 2	The following specifications shall be satisfied when the capacitors are restored to 20°C after the test condition that the rated voltage is											
	applied for 100 hours at 150°C and DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage)											
	for the specified period of time at 125°C or 135°C.											
	Time				dc: 2,50		3					
		135°C 25 to 50V _{dc} : 2,500hours										
		63 to 100V _∞ : 1,500hours										
	Capacitance change	≤±30% of the initial value ≤300% of the initial specified value										
	D.F. (tan δ)						alue					
	Leakage current				ied val							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°Cwithout 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	0% of	the ini	tial valu	ıe						
	D.F. (tan δ)	≦300)% of t	he initi	al spec	ified v	alue					
	Leakage current	≦The	initia	specif	ied val	ue						
Vibration	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to vibration test (vibration profile shown below) at room temperature (15 to 35°C).											
	Capacitance change		•		al valu							
	D.F. (tan δ)	≦The	initia	specif	ied val	ue						
	Leakage current				ied val							
	Vibration profile											
	Vibration frequency range	10 to	2,0001	Hz								
	Amplitude or Acceleration	1.5mm peak to peak or 392m/s²(40G), whichever is the less severe										
	Sweep rate	10 to 2,000 to 10Hz 0.5 octave/minute										
	Direction and	2 hours in each of 3 mutually perpendicular directions (total of 6hours)										
	period of motion			Fixation Fix main body and Lead teminal using a fixture tool, please contact us for detail.								

◆DIMENSIONS [mm]

●Terminal Code : E





Gas escape end seal

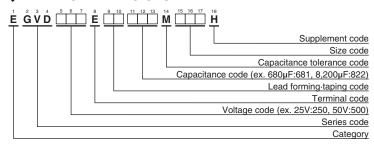
φD 18 φd 0.8 F 7.5 φD' φD±0.5 L^{+1.5}

^{*} Please contact us about lead formings and mounting methods.





◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φ D×L(mm)	tan δ		SR 100kHz)		ole current s/100kHz)	Part No.
				20℃	-40℃	125℃	135℃	
25	6,200	18×30	0.24	0.023	0.19	5,380	3,330	EGVD250E□□622MM30H
25	8,200	18×35.5	0.28	0.019	0.13	6,110	3,750	EGVD250E□□822MMP1H
35	3,600	18×30	0.16	0.023	0.19	5,380	3,330	EGVD350E□□362MM30H
35	4,700	18×35.5	0.18	0.019	0.13	6,110	3,750	EGVD350E□□472MMP1H
50	2,000	18×30	0.12	0.029	0.26	5,050	2,910	EGVD500E□□202MM30H
50	2,400	18×35.5	0.12	0.024	0.20	5,760	3,330	EGVD500E□□242MMP1H
63	1,300	18×30	0.10	0.029	0.18	3,930	3,100	EGVD630E□□132MM30H
03	1,800	18×35.5	0.10	0.024	0.14	4,920	3,520	EGVD630E□□182MMP1H
80	820	18×30	0.08	0.029	0.18	3,930	3,100	EGVD800E□□821MM30H
80	1,200	18×35.5	0.08	0.024	0.14	4,920	3,520	EGVD800E□□122MMP1H
100	510	18×30	0.08	0.038	0.25	3,800	2,830	EGVD101E□□511MM30H
100	680	18×35.5	0.08	0.030	0.19	4,550	3,210	EGVD101E□□681MMP1H

 $\square\,\square$: Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(μF) Frequency(Hz)	120	1k	10k	100k
510	0.50	0.85	0.94	1.00
680 to 2,000	0.60	0.87	0.95	1.00
2,400 to 3,600	0.75	0.90	0.95	1.00
4,700 to 8,200	0.85	0.95	0.98	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.