- 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.

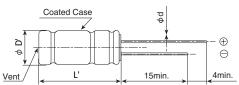
Vibration resistance **GVD**

♦SPECIFICATIONS

Items	Characteristics												
Category Temperature Range	-40 to +135℃												
Rated Voltage Range	25 to 100V _{dc}												
Capacitance Tolerance	±20% (M)								(at 20°C, 120	0Hz)			
Leakage Current	I=0.03CV or 4μ A, 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 (tan δ)	Rated voltage (Vdc)	Rated 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	e above for each 1,000μF increase.	(at 20°C, 120	0Hz)			
Low Temperature	Rated voltage (Vdc)	25V	35V	50V	63V	80V	100V	·					
Characteristics	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	be sa	tisfied	when	the car	acitors	are restored to 20°C after subjected to DC v					
								ed voltage) for the specified period of time at					
	Time	125℃	25 to	o 100V	dc: 3,00	Ohours	3						
		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	initial	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		6						
		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 ≤The initial specified value												
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 va	alue						
	Leakage current	≦The	initial	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	initial	specif	ied val	ue							
	Leakage current				ied val								
	Vibration profile												
	Vibration frequency range	10 to	2,0001	Ηz									
	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

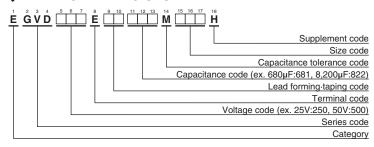
φD	18					
φd	0.8					
F	7.5					
φD'	φD±0.5					
Ľ	ı +1.5					
	^L -1.0					

^{*} 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	ES (Ωmax/	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.



CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. 3 Medical equipment 4 Transport equipment (automobiles, trains, ships, etc.) (5) Transportation control equipment (6) Disaster prevention / crime prevention equipment (7) Highly publicized information processing equipment ® Submarine equipment ® Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
 - Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific
 - products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
 - In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System Part Numbering System (Appendix) Standardization Available Items by Manufacturing Locations **Environmental Measures Technical Note** Precautions and Guidelines Recommended Soldering Conditions Taping, Lead-preforming and Packaging Available Terminals for Snap-in and Screw Mount Type