GVD

Vibration resistance

GPD

- Structure of higher vibration resistance by GPD series (acceleration 392m/s², 40G)
- Output Guaranteed short time at 150℃
- Designed 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.

\$SPECIFICATIONS

Category Temperature Range -40 to +135℃					Characteristics								
	-40 to +135℃												
Rated Voltage Range 25 to 100V _{dc}													
Capacitance Tolerance ±20% (M)	±20% (M) (at 20°C, 120Hz)												
Leakage Current I=0.03CV or 4μA, whichever is greater. Where, I : Max. leakage current (μA), C : Non	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 Rated voltage (Vdc) 25V 35V 50V	63V	80V	100V										
(tan δ) tan δ (Max.) 0.14 0.12 0.10	0.10	0.08	0.08										
When nominal capacitance exceeds 1,000µF	, add 0	.02 to t	he valu	e above for each 1,000μF increase. (at 20℃, 120)Hz)								
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) $Z(-40^{\circ}C)/Z(+20^{\circ}C)$ 4 4 4	4	4	4	(at 120)Hz)								
	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°C 25 to 100V	dc : 3,00	00hours	6										
135℃ 25 to 50Vd	: 3,00	Ohours											
63 to 100V													
	Capacitance change $\leq \pm 30\%$ of the initial value												
D.F. (tan δ) $\leq 300\%$ of the init		-	alue										
Leakage current ≦The initial speci													
applied for 100 hours at 150°C and DC voltage	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.												
135℃ 25 to 50V _d	125°C 25 to 100V₀ : 2,500hours 135°C 25 to 50V₀ : 2,500hours 63 to 100V₀ : 1,500hours												
Capacitance change $\leq \pm 30\%$ of the initial	Capacitance change $\leq \pm 30\%$ of the initial value												
D.F. (tan δ) $\leq 300\%$ of the init	≦300% of the initial specified value												
Leakage current ≦The initial speci	ied val	ue											
	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°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 $\leq \pm 30\%$ of the initial	tial valu	le											
D.F. (tan δ) \leq 300% of the init	al spec	ified va	alue										
Leakage current ≦The initial speci	ied val	ue											
0 1	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 $\leq \pm 5\%$ of the init	al valu	е											
D.F. (tan δ) \leq The initial speci	ied val	ue											
Leakage current ≦The initial speci	ied val	ue											
Vibration profile	Vibration profile												
Vibration frequency 10 to 2,000Hz													
range													
Amplitude or 1.5mm peak to pe Acceleration													
Sweep rate 10 to 2,000 to 10H	Sweep rate 10 to 2,000 to 10Hz 0.5 octave/minute												
Direction and 2 hours in each of period of motion	2 hours in each of 3 mutually perpendicular directions (total of 6hours)												
Fixation Fix main body and	Fixation Fix main body and Lead teminal using a fixture tool, please contact us for detail.												

DIMENSIONS [mm]



Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size ¢D×L(mm)	tan δ	ESR (Ωmax/100kHz)			ole current s/100kHz)	Part No.	
				20°C	-40°C	125℃	135℃		
25	6,200	18×30	0.24	0.023	0.19	5,380	3,330	EGVD250E C622MM30H	
25	8,200	0 18×35.5 0.28 0.019		0.019	0.13	.13 6,110 3		EGVD250E B22MMP1H	
35	3,600	18×30	0.16	0.023	0.19	5,380	3,330	EGVD350E 362MM30H	
35	4,700	1,700 18×35.5 0.18 0.01		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 B21MM30H	
00	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	
100	680	18×35.5	0.08	0.030	0.19	4,550	3,210	EGVD101E 681MMP1H	

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 $\Box\,\Box$: 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

Please contact us for lifetime estimation.