GVASeries

- Structure of higher vibration by GPA series (acceleration 392m/s², 40G)
- ■Guaranteed short time at 150°C
- Designed for electric power steering and ECU(include engine control, direct fuel injection) etc.
- Rated voltage range: 25 to 100V, Capacitance range: 430 to 5,100µF
- Solvent resistant type
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

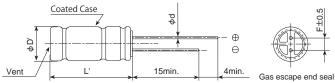
GPA Vibration resistance GVA

SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-40 to +125℃								
Rated Voltage Range	25 to 100V _{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°C, 1 minute)								
Dissipation Factor	Rated voltage (Vdc)	25V	35V	50V	63V	80V	100V		
$(\tan \delta)$	tan δ (Max.)		0.12	0.10	0.10	0.08	0.08		
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C,								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°C)/Z(+20°C)	4	4	4	4	4	4	(at 120	Hz)
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 5,000 hours at 125 °C.								
	Capacitance change ≤±30% of the initial value						/oitage)	101 3,000 Hours at 125 C.	
	D.F. (tan δ)	≤300% of the initial value					مباد		
	Leakage current	≤The initial specified value					ilue		
Endurance 2							acitore	are restored to 20°C after the test condition that the rated volt	200
Lindardiioc Z	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 4,500 hours at 125°C.								
	Capacitance change ≤±30% of the initial value								
	D.F. (tan δ)	≦30	0% of t	he initi	al spec	ified va	alue		
	Leakage current	≦The initial specified value				ue			
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 ≤±30% of the initial value								
	D.F. (tan δ)	≦300% of the initial specified value				ified va	alue		
	Leakage current	≦The initial specified value				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	≦±:	5% of t	he initi	al valu	9			
	D.F. (tan δ)	≦Th	e initia	l specit	fied val	ue			
	Leakage current	≦Th	e initia	l specif	fied val	ue			
	Vibration profile								
	Vibration frequency range 10 to 2,000Hz								
	Amplitude or Acceleration	Amplitude or 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 period of motion	2 hours in each of 3 mutually perpendicular directions (total of 6hours)							
	Fixation	Fix main body and Lead teminal using a fixture tool, please contact us for detail.							

◆DIMENSIONS [mm]





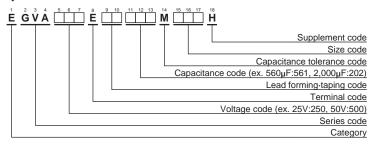
^{*} Please contact us about lead formings and mounting methods.

φD	18					
φd	0.8					
F	7.5					
φD'	φD±0.5					
Ľ	_, +1.5					
_	L -1.0					





◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	ES (Ω max.	SR /100kHz)	Rated ripple current	Part No.	
				20℃	-40℃	(mArms/125°C, 100kHz)		
25	3,900 18×30 0.18 0.		0.023	0.11	3,330	EGVA250E□□392MM30H		
25	5,100	18×35.5	0.22	0.019	0.086	3,750	EGVA250E□□512MMP1H	
35	2,700 18×	18×30	0.14	0.023	0.11	3,330	EGVA350E□□272MM30H	
35	3,600	18×35.5	0.16	0.019	0.086	3,750	EGVA350E□□362MMP1H	
50	1,600	18×30	0.10	0.027	0.14	3,000	EGVA500E□□162MM30H	
50	2,000	18×35.5	0.12	0.022	0.10	3,450	EGVA500E□□202MMP1H	
63	7	0.045	0.34	2,530	EGVA630E□□122MM30H			
03		1,500 18×:	0.10	0.036	0.26	2,870	EGVA630E□□152MMP1H	
80	750	18×30	0.08	0.045	0.34	2,530	EGVA800E□□751MM30H	
00	910	18×35.5	0.08	0.036	0.26	2,870	EGVA800E□□911MMP1H	
100	430	18×30	0.08	0.055	0.41	2,290	EGVA101E□□431MM30H	
100	560	18×35.5	0.08	0.044	0.32	2,620	EGVA101E□□561MMP1H	

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

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k			
430 to 560	0.50	0.85	0.94	1.00			
750 to 2,000	0.60	0.87	0.95	1.00			
2,700 to 3,900	0.75	0.90	0.95	1.00			
5,100	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.