New!

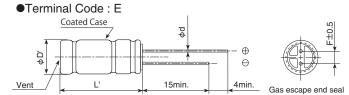
- Structure of higher vibration by GPA series (acceleration 392m/s², 40G)
- ⊕ High temperature resistance 100 hours at 150°C
- Designed for electric power steering and ECU(include engine control, direct fuel injection) etc.
- Rated voltage range: 25 to 100V, Capacitance range: 430 to 5,100μF
- Solvent resistant type
- RoHS Compliant



SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	-40 to +125℃								
Rated Voltage Range	25 to 100V∞								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	I=0.03CV or 4μ A, 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 capacitand	nal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C,						e above for each 1,000µF increase. (at 20℃, 120Hz)	
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 120Hz)	
Endurance 1	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the								
	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							
	D.F. (tan δ)	≦300% of the initial specified value					alue		
	Leakage current	≦The initial specified value							
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 4,500 hours at 125°C.								
	Capacitance change			the ini	tial valu	ie			
	D.F. (tan δ)	≦300	0% of t	he initi	al spec	ified va	alue		
	Leakage current				fied 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°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	≦±30% of the initial value				ie	-		
	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	5% of t	he initi	al valu				
	D.F. (tan δ)	≦The	e initia	l specif	fied val	ue			
	Leakage current	≦The	e initia	l specif	fied val	ue			
	Vibration profile								
	Vibration frequency 10 to 2,000Hz range								
	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 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]



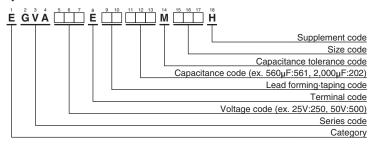
 $[\]ensuremath{^{*}}$ Please contact us about lead formings and mounting methods.

φD	18			
φd	0.8			
F	7.5			
φD'	φD+0.5max.			
11	I ±1 5may			

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap	Case size		SR :./100kHz)	Rated ripple current	Part No.
	(μF)	φD×L(mm)	20℃	-40℃	(mArms/125℃, 100kHz)	
25	3,900	18×30	0.023	0.11	3,330	EGVA250E□□392MM30H
	5,100	18×35.5	0.019	0.086	3,750	EGVA250E□□512MMP1H
0.5	2,700	18×30	0.023	0.11	3,330	EGVA350E□□272MM30H
35	3,600	18×35.5	0.019	0.086	3,750	EGVA350E□□362MMP1H
50	1,600	18×30	0.027	0.14	3,000	EGVA500E□□162MM30H
	2,000	18×35.5	0.022	0.10	3,450	EGVA500E□□202MMP1H
63	1,200	18×30	0.045	0.34	2,530	EGVA630E□□122MM30H
	1,500	18×35.5	0.036	0.26	2,870	EGVA630E□□152MMP1H
80	750	18×30	0.045	0.34	2,530	EGVA800E□□751MM30H
	910	18×35.5	0.036	0.26	2,870	EGVA800E□□911MMP1H
100	430	18×30	0.055	0.41	2,290	EGVA101E□□431MM30H
100	560	18×35.5	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 endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

Please contact us for lifetime estimation.