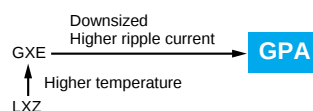


GPA Series

- Downsized, low impedance and high-ripple current version of GXE series
- For automobile modules and other high temperature applications
- Endurance with ripple current : 3,000 to 5,000 hours at 125°C
- Solvent resistant type
- RoHS Compliant

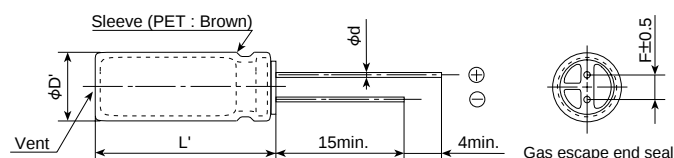


SPECIFICATIONS

Items	Characteristics				
Category	-40 to +125°C				
Temperature Range					
Rated Voltage Range	25 to 50V _{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 (tanδ)	Rated voltage (V _{dc})	25	35	50	
	tanδ (Max.)	0.14	0.12	0.10	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the above value for each 1,000μF increase. (at 20°C, 120Hz)				
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	25	35	50	
	Z(-25°C)/Z(+20°C)	2	2	2	
	Z(-40°C)/Z(+20°C)	4	4	4	
Endurance	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 for 5,000 hours (3,000 hours for 25L and less) at 125°C.				
	Capacitance change	≤±30% of the initial value			
	D.F. (tanδ)	≤300% of the initial specified value			
	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°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			
	D.F. (tanδ)	≤300% of the initial specified value			
	Leakage current	≤The initial specified value			

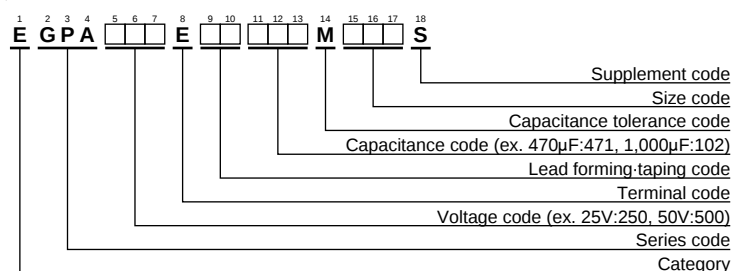
DIMENSIONS [mm]

- Terminal Code : E



φD	12.5	14.5	16	18
φd	0.6	0.8	0.8	0.8
F	5.0	7.5	7.5	7.5
φD'	φD+0.5max.			
L'	L+1.5max.			

PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	ESR (Ωmax/100kHz)		Rated ripple current (mA _{rms} /125°C, 100kHz)	Part No.
			20°C	-40°C		
25	1,200	12.5×20	0.044	0.22	1,820	EGPA250E□□122MK20S
	1,500	14.5×20	0.037	0.19	2,100	EGPA250E□□152MU20S
	1,800	12.5×25	0.033	0.17	2,280	EGPA250E□□182MK25S
	1,800	16×20	0.034	0.17	2,280	EGPA250E□□182ML20S
	2,200	12.5×30	0.029	0.13	2,560	EGPA250E□□222MK30S
	2,200	14.5×25	0.028	0.14	2,620	EGPA250E□□222MU25S
	2,700	12.5×35	0.024	0.11	2,970	EGPA250E□□272MK35S
	2,700	14.5×30	0.023	0.10	3,060	EGPA250E□□272MU30S
	2,700	16×25	0.026	0.13	2,860	EGPA250E□□272ML25S
	2,700	18×20	0.032	0.16	2,490	EGPA250E□□272MM20S
	3,300	12.5×40	0.021	0.095	3,340	EGPA250E□□332MK40S
	3,300	14.5×35	0.021	0.095	3,380	EGPA250E□□332MU35S
	3,300	16×30	0.023	0.10	3,160	EGPA250E□□332ML30S
	3,900	16×35	0.020	0.090	3,590	EGPA250E□□392ML35S
	3,900	18×25	0.024	0.12	3,010	EGPA250E□□392MM25S
	4,700	14.5×40	0.018	0.081	3,730	EGPA250E□□472MU40S
	4,700	18×30	0.022	0.099	3,390	EGPA250E□□472MM30S
	5,600	16×40	0.017	0.077	3,970	EGPA250E□□562ML40S
35	5,600	18×35	0.019	0.086	3,840	EGPA250E□□562MM35S
	6,800	18×40	0.016	0.072	4,230	EGPA250E□□682MM40S
	680	12.5×20	0.044	0.22	1,820	EGPA350E□□681MK20S
	1,000	12.5×25	0.033	0.17	2,280	EGPA350E□□102MK25S
	1,000	14.5×20	0.037	0.19	2,100	EGPA350E□□102MU20S
	1,200	12.5×30	0.029	0.13	2,560	EGPA350E□□122MK30S
	1,200	16×20	0.034	0.17	2,280	EGPA350E□□122ML20S
	1,200	14.5×25	0.028	0.14	2,620	EGPA350E□□122MU25S
	1,500	12.5×35	0.024	0.11	2,970	EGPA350E□□152MK35S
	1,500	14.5×30	0.023	0.10	3,060	EGPA350E□□152MU30S
50	1,500	18×20	0.032	0.16	2,490	EGPA350E□□152MM20S
	1,800	12.5×40	0.021	0.095	3,340	EGPA350E□□182MK40S
	1,800	16×25	0.026	0.13	2,860	EGPA350E□□182ML25S
	2,200	14.5×35	0.021	0.095	3,380	EGPA350E□□222MU35S
	2,200	16×30	0.023	0.10	3,160	EGPA350E□□222ML30S
	2,200	18×25	0.024	0.12	3,010	EGPA350E□□222MM25S
	2,700	14.5×40	0.018	0.081	3,730	EGPA350E□□272MU40S
	2,700	16×35	0.020	0.090	3,590	EGPA350E□□272ML35S
	2,700	18×30	0.022	0.099	3,390	EGPA350E□□272MM30S
	3,300	16×40	0.017	0.077	3,970	EGPA350E□□332ML40S
75	3,300	18×35	0.019	0.086	3,840	EGPA350E□□332MM35S
	4,700	18×40	0.016	0.072	4,230	EGPA350E□□472MM40S
	470	12.5×20	0.065	0.33	1,500	EGPA500E□□471MK20S
	560	14.5×20	0.055	0.28	1,740	EGPA500E□□561MU20S
	680	12.5×25	0.048	0.24	1,900	EGPA500E□□681MK25S
	680	16×20	0.043	0.22	2,040	EGPA500E□□681ML20S
	820	12.5×30	0.041	0.18	2,150	EGPA500E□□821MK30S
	820	14.5×25	0.040	0.20	2,190	EGPA500E□□821MU25S
	1,000	12.5×35	0.034	0.15	2,510	EGPA500E□□102MK35S
	1,000	14.5×30	0.036	0.16	2,470	EGPA500E□□102MU30S
100	1,000	16×25	0.031	0.16	2,620	EGPA500E□□102ML25S
	1,000	18×20	0.039	0.20	2,240	EGPA500E□□102MM20S
	1,200	12.5×40	0.028	0.13	2,870	EGPA500E□□122MK40S
	1,200	14.5×35	0.029	0.13	2,840	EGPA500E□□122MU35S
	1,200	16×30	0.027	0.13	2,940	EGPA500E□□122ML30S
	1,200	18×25	0.029	0.15	2,750	EGPA500E□□122MM25S
	1,500	16×35	0.023	0.10	3,300	EGPA500E□□152ML35S
	1,800	14.5×40	0.024	0.11	3,230	EGPA500E□□182MU40S
	1,800	18×30	0.026	0.12	3,140	EGPA500E□□182MM30S
	2,200	16×40	0.020	0.090	3,720	EGPA500E□□222ML40S
150	2,200	18×35	0.022	0.10	3,510	EGPA500E□□222MM35S
	2,700	18×40	0.018	0.080	3,940	EGPA500E□□272MM40S

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF)	Frequency(Hz)	120	1k	10k	100k
470 to 560		0.50	0.85	0.94	1.00
680 to 1,800		0.60	0.87	0.95	1.00
2,200 to 3,900		0.75	0.90	0.95	1.00
4,700 to 6,800		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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

EGPA500ELL222MM35S	EGPA250ELL562ML40S	EGPA350ELL222MU35S	EGPA500ELL102MK35S
EGPA500ELL681ML20S	EGPA350ELL222ML30S	EGPA350ELL472MM40S	EGPA500ELL152ML35S
EGPA500ELL272MM40S	EGPA250ELL122MK20S	EGPA250ELL152MU20S	EGPA250ELL182MK25S
EGPA250ELL182ML20S	EGPA250ELL222MU25S	EGPA250ELL272MK35S	EGPA250ELL272MM20S
EGPA250ELL272MU30S	EGPA250ELL332MK40S	EGPA250ELL332ML30S	EGPA250ELL332MU35S
EGPA250ELL392ML35S	EGPA250ELL392MM25S	EGPA250ELL472MM30S	EGPA250ELL472MU40S
EGPA250ELL562MM35S	EGPA250ELL682MM40S	EGPA350ELL102MK25S	EGPA350ELL102MU20S
EGPA350ELL122MK30S	EGPA350ELL122ML20S	EGPA350ELL122MU25S	EGPA350ELL152MK35S
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EGPA500ELL222ML40S	EGPA500ELL471MK20S	EGPA500ELL561MU20S	EGPA500ELL681MK25S
EGPA500ELL821MK30S	EGPA500ELL821MU25S	EGPA630ELL681ML25S	EGPA101ELL391MM25S
EGPA101ELL561ML40S	EGPA800ELL681MM30S	EGPA630ELL152MM35S	EGPA250ELL222MK30S
EGPA800ELL561ML30S	EGPA800ELL681ML35S	EGPA101ELL361ML30S	EGPA101ELL271MM20S
EGPA800ELL122MM40S	EGPA630ELL102ML35S	EGPA800ELL471MM20S	EGPA101ELL201ML20S
EGPA101ELL751MM40S	EGPA101ELL511MM30S	EGPA800ELL471ML25S	EGPA630ELL471ML20S
EGPA630ELL122MM30S	EGPA630ELL821ML30S	EGPA101ELL301ML25S	EGPA800ELL821MM35S
EGPA800ELL331ML20S	EGPA630ELL182MM40S	EGPA630ELL102MM25S	EGPA101ELL621MM35S
EGPA630ELL681MM20S	EGPA101ELL471ML35S	EGPA500ETS102MM20S	EGPA800ELL561MM25S
EGPA630ELL122ML40S	EGPA800ELL821ML40S		