

GXF Series

- Downsizing and high-ripple current version of GXE series
- For automobile modules and networking equipment and other high temperature applications
- Endurance with ripple current : 3,000 hours at 125°C
- Solvent resistant type except 160 to 400V_{dc}
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

Downsized
Higher ripple current
GXE → GXF

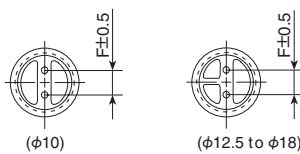
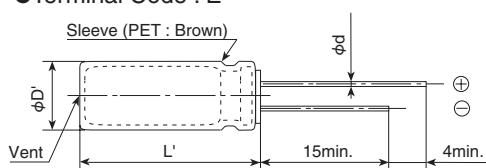


◆SPECIFICATIONS

Items	Characteristics									
Category	-40 to +125℃									
Temperature Range										
Rated Voltage Range	25 to 400V _{dc}									
Capacitance Tolerance	± 20% (M) (20℃, 120Hz)									
Leakage Current	25 to 100V _{dc}				160 to 400V _{dc}					
	I=0.03CV or 4 μ A, whichever is greater.				CV≤1,000		I=0.1CV+40			
					CV>1,000		I=0.04CV+100			
	Where, I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) (at 20℃ after 1 minute)									
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	25V	35V	50V	63V	80V	100V	160 to 250V	350 to 400V	
	tan δ (Max.)	0.14	0.12	0.10	0.10	0.08	0.08	0.15	0.20	
	When nominal capacitance exceeds 1,000 μ F, add 0.02 to the value above for each 1,000 μ F increase. (at 20℃, 120Hz)									
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	25V	35V	50V	63V	80V	100V	160 to 250V	350 to 400V	
	Z(-25℃)/Z(+20℃)	2	2	2	2	2	2	3	6	
	Z(-40℃)/Z(+20℃)	4	4	4	4	4	4	6	12	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the 3,000 hours at 125℃.									
	Rated Voltage	25 to 100V _{dc}						160 to 400V _{dc}		
	Capacitance change	≤±30% of the initial value						≤±20% of the initial value		
	D.F. (tan δ)	≤300% of the initial specified value						≤200% of the initial specified value		
	Leakage current	≤The initial specified value						≤The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours (500hours for 160 to 400V _{dc}) at 125℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.									
	Rated Voltage	25 to 100V _{dc}						160 to 400V _{dc}		
	Capacitance change	≤±30% of the initial value						≤±20% of the initial value		
	D.F. (tan δ)	≤300% of the initial specified value						≤200% of the initial specified value		
	Leakage current	≤The initial specified value						≤500% of the initial specified value		

◆DIMENSIONS [mm]

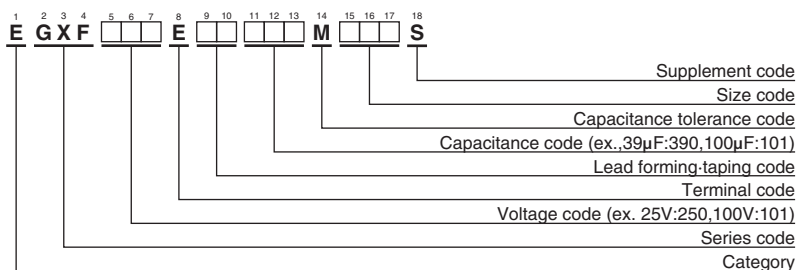
●Terminal Code : E



Gas escape end seal

ΦD	10	12.5	14.5	16	18
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	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)"

Return Group Chart



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

High ripple, 125°C

GXF Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φDxL(mm)	ESR (Ωmax./100kHz)		Rated ripple current (mA _{rms} /125°C, 100kHz)	Part No.
			20°C	-40°C		
25	510	10×12.5	0.14	2.1	900	EGXF250E□□511MJCS5
	750	10×16	0.094	1.5	1,300	EGXF250E□□751MJ16S
	910	12.5×15	0.082	1.1	1,220	EGXF250E□□911MK15S
	1,200	10×20	0.073	1.1	1,540	EGXF250E□□122MJ20S
	1,200	14.5×15	0.067	0.80	1,320	EGXF250E□□122MJ15S
	1,500	10×25	0.042	0.24	1,880	EGXF250E□□152MJ25S
	1,600	16×15	0.063	0.76	1,430	EGXF250E□□162ML15S
	1,800	12.5×20	0.038	0.19	1,590	EGXF250E□□182MK20S
	2,000	10×30	0.033	0.19	2,150	EGXF250E□□202MJ30S
	2,200	14.5×20	0.030	0.17	1,780	EGXF250E□□222MJ20S
	2,400	18×15	0.053	0.51	1,630	EGXF250E□□242MM15S
	2,700	12.5×25	0.030	0.14	2,280	EGXF250E□□272MK25S
	3,000	16×20	0.029	0.13	1,890	EGXF250E□□302ML20S
	3,300	12.5×30	0.025	0.10	2,760	EGXF250E□□332MK30S
	3,600	14.5×25	0.025	0.11	2,760	EGXF250E□□362MJ25S
	4,300	12.5×35	0.022	0.080	3,120	EGXF250E□□432MK35S
	4,300	16×25	0.022	0.092	3,030	EGXF250E□□432ML25S
	4,300	18×20	0.028	0.10	1,930	EGXF250E□□432MM20S
	4,700	14.5×30	0.020	0.081	3,090	EGXF250E□□472MJ30S
	5,100	12.5×40	0.019	0.068	3,610	EGXF250E□□512MK40S
	5,100	14.5×35	0.018	0.065	3,430	EGXF250E□□512MJ35S
	5,100	16×30	0.018	0.071	3,330	EGXF250E□□512ML30S
	5,600	18×25	0.020	0.078	3,200	EGXF250E□□562MM25S
	6,800	14.5×40	0.016	0.054	3,820	EGXF250E□□682MJ40S
	6,800	16×35	0.016	0.056	3,630	EGXF250E□□682ML35S
35	7,500	18×30	0.016	0.060	3,480	EGXF250E□□752MM30S
	8,200	16×40	0.015	0.048	3,930	EGXF250E□□822ML40S
	9,100	18×35	0.015	0.049	3,750	EGXF250E□□912MM35S
	11,000	18×40	0.014	0.043	4,040	EGXF250E□□113MM40S
	300	10×12.5	0.14	2.1	900	EGXF350E□□301MJCS5
	510	10×16	0.094	1.5	1,300	EGXF350E□□511MJ16S
	560	12.5×15	0.082	1.1	1,220	EGXF350E□□561MK15S
	680	10×20	0.073	1.1	1,540	EGXF350E□□681MJ20S
	750	14.5×15	0.067	0.80	1,320	EGXF350E□□751MJ15S
	820	10×25	0.042	0.24	1,880	EGXF350E□□821MJ25S
	1,100	12.5×20	0.038	0.19	1,590	EGXF350E□□112MK20S
	1,100	16×15	0.063	0.76	1,430	EGXF350E□□112ML15S
	1,200	10×30	0.033	0.19	2,150	EGXF350E□□122MJ30S
	1,500	12.5×25	0.030	0.14	2,280	EGXF350E□□152MK25S
	1,500	14.5×20	0.030	0.17	1,780	EGXF350E□□152MJ20S
	1,500	18×15	0.053	0.51	1,630	EGXF350E□□152MM15S
	2,000	12.5×30	0.025	0.10	2,760	EGXF350E□□202MK30S
	2,000	16×20	0.029	0.13	1,890	EGXF350E□□202ML20S
	2,200	14.5×25	0.025	0.11	2,760	EGXF350E□□222MJ25S
	2,400	12.5×35	0.022	0.080	3,120	EGXF350E□□242MK35S
	2,400	16×25	0.022	0.092	3,030	EGXF350E□□242ML25S
	2,400	18×20	0.028	0.10	1,930	EGXF350E□□242MM20S
	2,700	12.5×40	0.019	0.068	3,610	EGXF350E□□272MK40S
	2,700	14.5×30	0.020	0.081	3,090	EGXF350E□□272MJ30S
	3,000	14.5×35	0.018	0.065	3,430	EGXF350E□□302MJ35S
	3,300	16×30	0.018	0.071	3,330	EGXF350E□□332ML30S
	3,300	18×25	0.020	0.078	3,200	EGXF350E□□332MM25S
50	3,900	14.5×40	0.016	0.054	3,820	EGXF350E□□392MJ40S
	4,300	16×35	0.016	0.056	3,630	EGXF350E□□432ML35S
	4,300	18×30	0.016	0.060	3,480	EGXF350E□□432MM30S
	4,700	16×40	0.015	0.048	3,930	EGXF350E□□472ML40S
	5,100	18×35	0.015	0.049	3,750	EGXF350E□□512MM35S
	6,200	18×40	0.014	0.043	4,040	EGXF350E□□622MM40S
	160	10×12.5	0.24	3.6	730	EGXF500E□□161MJCS5
	240	10×16	0.16	2.5	1,080	EGXF500E□□241MJ16S
	270	12.5×15	0.14	1.8	1,020	EGXF500E□□271MK15S
	330	10×20	0.12	1.8	1,290	EGXF500E□□331MJ20S
	390	14.5×15	0.12	1.4	1,090	EGXF500E□□391MJ15S
	430	10×25	0.055	0.31	1,740	EGXF500E□□431MJ25S
	510	12.5×20	0.049	0.24	1,410	EGXF500E□□511MK20S
	560	10×30	0.041	0.25	2,020	EGXF500E□□561MJ30S
	560	16×15	0.11	1.3	1,190	EGXF500E□□561ML15S
	680	14.5×20	0.038	0.18	2,030	EGXF500E□□681MJ20S
	750	18×15	0.085	0.87	1,370	EGXF500E□□751MM15S
	910	16×20	0.037	0.17	1,740	EGXF500E□□911ML20S
	1,000	12.5×30	0.031	0.14	2,510	EGXF500E□□102MK30S
	1,000	14.5×25	0.031	0.14	2,480	EGXF500E□□102MJ25S
	1,200	12.5×35	0.027	0.11	2,900	EGXF500E□□122MK35S
	1,200	18×20	0.036	0.14	1,830	EGXF500E□□122MM20S
	1,300	14.5×30	0.026	0.11	2,870	EGXF500E□□132MJ30S
	1,300	16×25	0.027	0.13	2,690	EGXF500E□□132ML25S
	1,500	12.5×40	0.023	0.090	3,260	EGXF500E□□152MK40S
	1,500	14.5×35	0.023	0.085	3,160	EGXF500E□□152MM35S
	1,600	16×30	0.023	0.094	3,150	EGXF500E□□162ML30S
	1,800	18×25	0.025	0.11	2,900	EGXF500E□□182MM25S
63	2,000	14.5×40	0.020	0.072	3,560	EGXF500E□□202MJ40S
	2,000	16×35	0.020	0.074	3,470	EGXF500E□□202ML35S
	2,200	18×30	0.021	0.079	3,330	EGXF500E□□222MM30S
	2,400	16×40	0.018	0.063	3,800	EGXF500E□□242ML40S
	2,700	18×35	0.019	0.065	3,590	EGXF500E□□272MM35S
	3,300	18×40	0.017	0.058	3,850	EGXF500E□□332MM40S
	390	12.5×20	0.097	0.75	1,310	EGXF630E□□391MK20S
	510	12.5×25	0.072	0.55	1,880	EGXF630E□□511MK25S
	510	14.5×20	0.072	0.59	1,510	EGXF630E□□511MJ20S
	620	16×20	0.062	0.39	1,630	EGXF630E□□621ML20S
	680	12.5×30	0.052	0.37	2,410	EGXF630E□□681MK30S
	680	14.5×25	0.054	0.40	2,130	EGXF630E□□681MJ25S
	820	12.5×35	0.044	0.29	2,760	EGXF630E□□821MK35S
	820	18×20	0.055	0.29	1,750	EGXF630E□□821MM20S
	910	14.5×30	0.042	0.30	2,700	EGXF630E□□911MJ30S
	910	16×25	0.047	0.27	2,300	EGXF630E□□911ML25S
	1,000	12.5×40	0.038	0.26	3,080	EGXF630E□□102MK40S
	1,100	14.5×35	0.037	0.24	2,940	EGXF630E□□112MJ35S
	1,100	16×30	0.037	0.23	2,940	EGXF630E□□112ML30S
	1,200	18×25	0.044	0.22	2,440	EGXF630E□□122MM25S
	1,300	14.5×40	0.032	0.20	3,350	EGXF630E□□132MJ40S
	1,300	16×35	0.031	0.17	3,220	EGXF630E□□132ML35S
	1,500	18×30	0.037	0.18	3,100	EGXF630E□□152MM30S
	1,800	16×40	0.028	0.15	3,590	EGXF630E□□182ML40S
	2,000	18×35	0.028	0.13	3,450	EGXF630E□□202MM35S
	2,400	18×40	0.023	0.10	3,690	EGXF630E□□242MM40S
	240	12.5×20	0.097	0.75	1,310	EGXF800E□□241MK20S
	330	12.5×25	0.072	0.55	1,880	EGXF800E□□331MK25S
	330	14.5×20	0.072	0.59	1,510	EGXF800E□□331MJ20S
80	390	16×20	0.062	0.39	1,630	EGXF800E□□391ML20S
	430	12.5×30	0.052	0.37	2,410	EGXF800E□□431MK30S
	470	14.5×25	0.054	0.40	2,130	EGXF800E□□471MJ25S
	560	12.5×35	0.044	0.29	2,760	EGXF800E□□561MK35S
	560	16×25	0.047	0.27	2,300	EGXF800E□□561ML25S
	560	18×20	0.055	0.29	1,750	EGXF800E□□561MM20S
	620	12.5×40	0.038	0.26	3,080	EGXF800E□□621MK40S
	620	14.5×30	0.042	0.30	2,700	EGXF800E□□621MJ30S
	680	14.5×35	0.037	0.24	2,940	EGXF800E□□681MJ35S
	680	16×30	0.037	0.23	2,940	EGXF800E□□681ML30S
	750	18×25	0.044	0.22	2,440	EGXF800E□□751MM25S
	820	14.5×40	0.032	0.20	3,350	EGXF800E□□821MJ40S
	910	16×35	0.031	0.17	3,220	EGXF800E□□911ML35S
	910	18×30	0.037	0.18	3,100	EGXF800E□□911MM30S
	1,100	16×40	0.028	0.15	3,590	EGXF800E□□112ML40S
	1,300	18×35	0.028	0.13	3,450	EGXF800E□□132MM35S
	1,500	18×40	0.023	0.10	3,690	EGXF800E□□152MM40S
	130	12.5×20	0.12	0.94	1,210	EGXF101E□□131MK20S
	180	14.5×20	0.082	0.69	1,450	EGXF101E□□181MJ20S
	200	12.5×25	0.082	0.70	1,800	EGXF101E□□201MK25S
	240	12.5×30	0.062	0.52	2,290	EGXF101E□□241MK30S
	240	16×20	0.071	0.53	1,580	EGXF101E□□241ML20S
	270	14.5×25	0.064	0.52	2,050	EGXF101E□□271MJ25S
	330	12.5×35	0.051	0.38	2,680	EGXF101E□□331MK35S
100	130	12.5×20	0.12	0.94	1,210	EGXF101E□□131MK20S
	180	14.5×20	0.082	0.69	1,450	EGXF101E□□181MJ20S
	200	12.5×25	0.082	0.70	1,800	EGXF101E□□201MK25S
	240	12.5×30	0.062	0.52	2,290	EGXF101E□□241MK30S
	240	16×20	0.071	0.53	1,580	EGXF101E□□241ML20S
	270	14.5×25	0.064	0.52	2,050	EGXF101E□□271MJ25S
	330	12.5×35	0.051	0.38	2,680	EGXF101E□□331MK35S

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CAT. No. E1001U