

# 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<sub>dc</sub>
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.



## SPECIFICATIONS

Items	Characteristics								
Category	-40 to +125°C								
Temperature Range									
Rated Voltage Range	25 to 400V <sub>dc</sub>								
Capacitance Tolerance	±20%(M) (20°C, 120Hz)								
Leakage Current	25 to 100V <sub>dc</sub>				160 to 400V <sub>dc</sub>				
	I=0.03CV or 4µA, whichever is greater.				CV≤1,000 I=0.1CV+40				
					CV>1,000 I=0.04CV+100				
Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 1 minute)									
Dissipation Factor (tan δ)	Rated voltage (V <sub>dc</sub> )	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 1,000µF, add 0.02 to the value above for each 1,000µF increase. (at 20°C, 120Hz)								
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	25V	35V	50V	63V	80V	100V	160 to 250V	350 to 400V
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	3	6
	Z(-40°C)/Z(+20°C)	4	4	4	4	4	4	6	12
(at 120Hz)									
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 (the peak voltage shall not exceed the rated voltage) for the 3,000 hours at 125°C.								
	Rated Voltage	25 to 100V <sub>dc</sub>				160 to 400V <sub>dc</sub>			
	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°C after exposing them for 1,000 hours (500hours for 160 to 400V <sub>dc</sub> ) 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.								
	Rated Voltage	25 to 100V <sub>dc</sub>				160 to 400V <sub>dc</sub>			
	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			

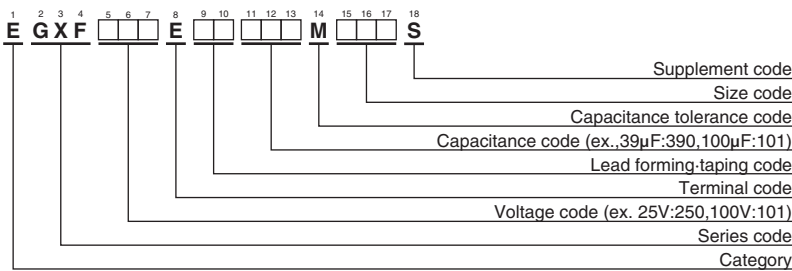
## DIMENSIONS [mm]

- Terminal Code : E



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)"

STANDARD RATINGS

Table of capacitor specifications with columns: WV (Vdc), Cap (µF), Case size φDxL(mm), ESR (Ωmax./100kHz) at 20°C and -40°C, Rated ripple current (mArms/125°C, 100kHz), Part No. Includes multiple rows for different voltage ratings (25, 35, 50, 63, 80, 100Vdc) and capacitance values.



# Mouser Electronics

Authorized Distributor

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

## [United Chemi-Con \(UCC\):](#)

[EGXF251ELL131MU40S](#) [EGXF350ELL202ML20S](#) [EGXF350ELL242MK35S](#) [EGXF350ELL152MM15S](#)  
[EGXF350ELL222MU25S](#) [EGXF350ELL432ML35S](#) [EGXF251ELL620ML20S](#) [EGXF401ELL560MU35S](#)  
[EGXF250ELL152MJ25S](#) [EGXF201ELL161MU35S](#) [EGXF401ELL510MK40S](#) [EGXF401ELL240MU20S](#)  
[EGXF351ELL430ML20S](#) [EGXF161ELL101MJ35S](#) [EGXF201ELL151ML25S](#) [EGXF800ELL561MK35S](#)  
[EGXF161ELL201ML25S](#) [EGXF201ELL101ML20S](#) [EGXF500ELL132MU30S](#) [EGXF401ELL200MJ30S](#)  
[EGXF101ELL201MK25S](#) [EGXF500ELL272MM35S](#) [EGXF500ELL102MK30S](#) [EGXF101ELL821MM40S](#)  
[EGXF800ELL821MU40S](#) [EGXF161ELL121MJ40S](#) [EGXF201ELL131MK35S](#) [EGXF351ELL680MU35S](#)  
[EGXF351ELL560MK35S](#) [EGXF630ELL182ML40S](#) [EGXF101ELL241MK30S](#) [EGXF251ELL820MK35S](#)  
[EGXF251ELL390MJ30S](#) [EGXF351ELL160MJ20S](#) [EGXF250ELL751MJ16S](#) [EGXF250ELL822ML40S](#)  
[EGXF251ELL910MU30S](#) [EGXF630ELL132ML35S](#) [EGXF351ELL360MJ40S](#) [EGXF250ELL911MK15S](#)  
[EGXF350ELL681MJ20S](#) [EGXF250ELL682ML35S](#) [EGXF350ELL122MJ30S](#) [EGXF251ELL360MK20S](#)  
[EGXF350ELL332ML30S](#) [EGXF350ELL511MJ16S](#) [EGXF350ELL242MM20S](#) [EGXF350ELL751MU15S](#)  
[EGXF351ELL270MJ30S](#) [EGXF350ELL392MU40S](#) [EGXF800ELL391ML20S](#) [EGXF161ELL181MU30S](#)  
[EGXF161ELL820MJ30S](#) [EGXF201ELL111MU25S](#) [EGXF251ELL101MK40S](#) [EGXF350ELL202MK30S](#)  
[EGXF250ELL362MU25S](#) [EGXF161ELL201MK40S](#) [EGXF161ELL750MK20S](#) [EGXF250ELL512MK40S](#)  
[EGXF101ELL391MU35S](#) [EGXF101ELL621ML40S](#) [EGXF401ELL160MJ25S](#) [EGXF351ELL910MU40S](#)  
[EGXF800ELL331MK25S](#) [EGXF800ELL152MM40S](#) [EGXF250ELL432MK35S](#) [EGXF201ELL131MM20S](#)  
[EGXF101ELL131MK20S](#) [EGXF101ELL431MM25S](#) [EGXF800ELL112ML40S](#) [EGXF630ELL821MM20S](#)  
[EGXF201ELL360MJ20S](#) [EGXF250ELL122MJ20S](#) [EGXF500ELL681MU20S](#) [EGXF351ELL560MM20S](#)  
[EGXF250ELL511MJC5S](#) [EGXF161ELL241MM25S](#) [EGXF351ELL560ML25S](#) [EGXF630ELL511MU20S](#)  
[EGXF101ELL331MK35S](#) [EGXF250ELL302ML20S](#) [EGXF250ELL332MK30S](#) [EGXF201ELL101MK30S](#)  
[EGXF201ELL151MK40S](#) [EGXF161ELL131ML20S](#) [EGXF251ELL510MK25S](#) [EGXF500ELL222MM30S](#)  
[EGXF500ELL751MM15S](#) [EGXF351ELL680MK40S](#) [EGXF401ELL470MU30S](#) [EGXF630ELL202MM35S](#)  
[EGXF161ELL101MU20S](#) [EGXF251ELL680MK30S](#) [EGXF161ELL510MJ20S](#) [EGXF500ELL561ML15S](#)  
[EGXF800ELL331MU20S](#) [EGXF161ELL151MU25S](#) [EGXF630ELL511MK25S](#) [EGXF101ELL561MM30S](#)