

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.



SPECIFICATIONS

Items	Characteristics										
Category	-40 to +125°C										
Temperature Range											
Rated Voltage Range	25 to 400V _{dc}										
Capacitance Tolerance	±20%(M) (20°C, 120Hz)										
Leakage Current	25 to 100V _{dc}				160 to 400V _{dc}						
	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 _{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 1,000µF, 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 _{dc})	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 _{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°C after exposing them for 1,000 hours (500hours for 160 to 400V _{dc}) 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 _{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)"

STANDARD RATINGS

Table with 2 columns for WV (Vdc), Cap (μF), Case size φDxL (mm), ESR (Ωmax./100kHz), Rated ripple current (mA rms/125°C, 100kHz), and Part No. The table lists various capacitor specifications across four voltage categories: 25V, 35V, 50V, and 100V.

