

New!

GXL Series

- Long-Life version of GXE series
- For automobile modules and other high temperature applications
- Endurance with ripple current : 125°C 5000 to 10000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

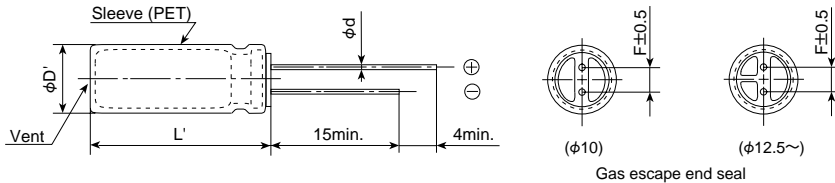


◆ SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-40 to +125°C					
Rated Voltage Range	10 to 50V <sub>dc</sub>					
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 <sub>dc</sub> )	10V	16V	25V	35V	50V
	tanδ (Max.)	0.20	0.16	0.14	0.12	0.10
When nominal capacitance exceeds 1000μF, add 0.02 to the above value for each 1000μF increase. (at 20°C, 120Hz)						
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V
	Z(-25°C)/Z(+20°C)	3	2	2	2	2
Z(-40°C)/Z(+20°C) 6 4 4 4 4 4 (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 for 10000 hours (5000 hours for φ10) at 125°C.					
	Capacitance change	≤±30% of the initial value				
	D.F. (tanδ)	≤±300% of the initial specified value				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 125°C without voltage applied.					
	Capacitance change	≤±30% of the initial value				
	D.F. (tanδ)	≤±300% of the initial specified value				
	Leakage current	≤The initial specified value				

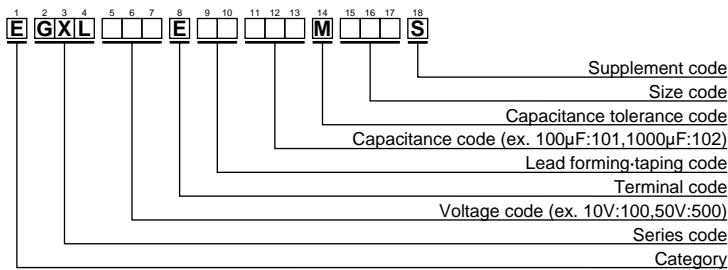
◆ DIMENSIONS [mm]

- Terminal Code : E



φD	10	12.5	16
φd	0.6	0.6	0.8
F	5.0	5.0	7.5
φD'	φD+0.5max.		
L'	L+1.5max.		

◆ PART NUMBERING SYSTEM



Please refer to "A guide to global code (radial lead type)"

**◆STANDARD RATINGS**

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/20°C, 100kHz)	Rated ripple current (mA rms/125°C, 100kHz)	Part No.
10	330	10 × 12.5	0.17	800	EGXL100E□□331MJC5S
	470	10 × 12.5	0.17	800	EGXL100E□□471MJC5S
	1000	10 × 20	0.094	1300	EGXL100E□□102MJ20S
	2200	12.5 × 25	0.055	2050	EGXL100E□□222MK25S
	3300	16 × 25	0.035	2500	EGXL100E□□332ML25S
	4700	16 × 31.5	0.027	3000	EGXL100E□□472MLN3S
16	220	10 × 12.5	0.17	800	EGXL160E□□221MJC5S
	330	10 × 12.5	0.17	800	EGXL160E□□331MJC5S
	470	10 × 16	0.12	1050	EGXL160E□□471MJ16S
	1000	12.5 × 20	0.067	1650	EGXL160E□□102MK20S
	2200	16 × 25	0.035	2500	EGXL160E□□222ML25S
	3300	16 × 31.5	0.027	3000	EGXL160E□□332MLN3S
25	220	10 × 12.5	0.17	800	EGXL250E□□221MJC5S
	330	10 × 16	0.12	1050	EGXL250E□□331MJ16S
	470	10 × 20	0.094	1300	EGXL250E□□471MJ20S
	1000	12.5 × 25	0.055	2050	EGXL250E□□102MK25S
	2200	16 × 31.5	0.027	3000	EGXL250E□□222MLN3S
	35	100	10 × 12.5	0.17	800
220		10 × 16	0.12	1050	EGXL350E□□221MJ16S
330		10 × 20	0.094	1300	EGXL350E□□331MJ20S
470		12.5 × 20	0.067	1650	EGXL350E□□471MK20S
1000		16 × 25	0.035	2500	EGXL350E□□102ML25S
50		100	10 × 12.5	0.30	590
	220	10 × 20	0.19	970	EGXL500E□□221MJ20S
	330	12.5 × 20	0.11	1380	EGXL500E□□331MK20S
	470	12.5 × 25	0.085	1700	EGXL500E□□471MK25S
	1000	16 × 31.5	0.043	2490	EGXL500E□□102MLN3S

□□ : Lead forming / Taping code

**◆RATED RIPPLE CURRENT MULTIPLIERS**

## ●Frequency Multipliers

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
100	0.40	0.75	0.90	1.00
220~470	0.50	0.85	0.94	1.00
1000	0.60	0.87	0.95	1.00
2200~3300	0.75	0.90	0.95	1.00
4700	0.85	0.95	0.98	1.00