



## GXL Series

- Long-Life version of GXE series
- For automobile modules and other high temperature applications
- Endurance with ripple current : 5,000 hours at 125°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

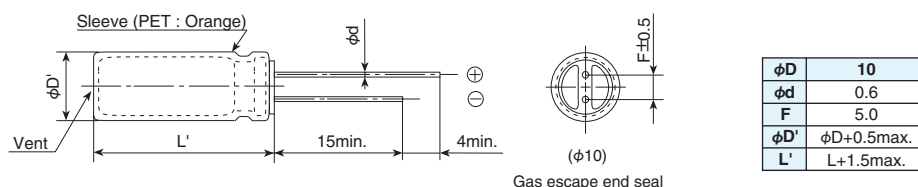


### SPECIFICATIONS

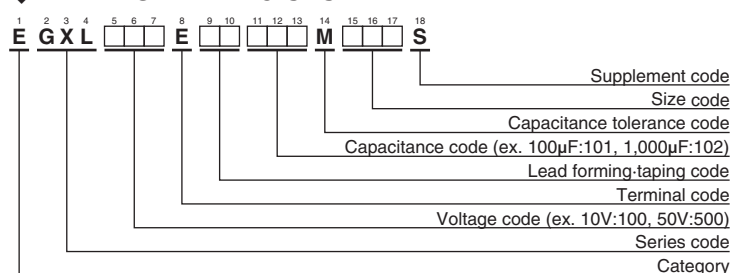
Items	Characteristics						
Category							
Temperature Range	-40 to +125℃						
Rated Voltage Range	10 to 50V <sub>dc</sub>						
Capacitance Tolerance	± 20% (M) (at 20℃, 120Hz)						
Leakage Current	I=0.03CV or 4μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃, 1 minute)						
Dissipation Factor (tan δ)	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V	(at 20℃, 120Hz)
	tan δ (Max.)	0.20	0.16	0.14	0.12	0.10	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V	(at 120Hz)
	Z(-25℃)/Z(+20℃)	3	2	2	2	2	
	Z(-40℃)/Z(+20℃)	6	4	4	4	4	
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 5,000 hours at 125℃.						
	Capacitance change	≤ ±30% of the initial value					
	D.F. (tan δ)	≤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℃ after exposing them for 1,000 hours 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.						
	Capacitance change	≤ ±30% of the initial value					
	D.F. (tan δ)	≤300% of the initial specified value					
	Leakage current	≤The initial specified value					

### DIMENSIONS [mm]

- Terminal Code : E



### PART NUMBERING SYSTEM



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

**GXL**Series

## ◆STANDARD RATINGS

WV (V <sub>ac</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /125°C, 100kHz)	Part No.
10	330	10 × 12.5	0.20	0.17	800	EGXL100E□□331MJC5S
	470	10 × 12.5	0.20	0.17	800	EGXL100E□□471MJC5S
	1,000	10 × 20	0.20	0.094	1,300	EGXL100E□□102MJ20S
16	220	10 × 12.5	0.16	0.17	800	EGXL160E□□221MJC5S
	330	10 × 12.5	0.16	0.17	800	EGXL160E□□331MJC5S
	470	10 × 16	0.16	0.12	1,050	EGXL160E□□471MJ16S
25	220	10 × 12.5	0.14	0.17	800	EGXL250E□□221MJC5S
	330	10 × 16	0.14	0.12	1,050	EGXL250E□□331MJ16S
	470	10 × 20	0.14	0.094	1,300	EGXL250E□□471MJ20S
35	100	10 × 12.5	0.12	0.17	800	EGXL350E□□101MJC5S
	220	10 × 16	0.12	0.12	1,050	EGXL350E□□221MJ16S
	330	10 × 20	0.12	0.094	1,300	EGXL350E□□331MJ20S
50	100	10 × 12.5	0.10	0.30	590	EGXL500E□□101MJC5S
	220	10 × 20	0.10	0.19	970	EGXL500E□□221MJ20S

□□ : Enter the appropriate lead forming or 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 to 470	0.50	0.85	0.94	1.00
1,000	0.60	0.87	0.95	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.  
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.  
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.  
In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

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[Available Terminals for Snap-in and Screw Mount Type](#)