NIPPON CHEMI-CON

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Longer life, 125℃

New!

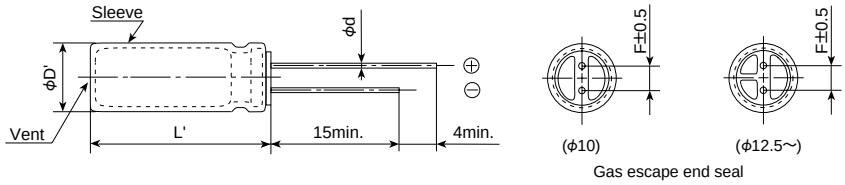
GXL Series

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

◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	−40 to +125℃						
Rated Voltage Range	10 to 50Vdc						
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 (tanδ)	Rated voltage (Vdc)	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℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	10V	16V	25V	35V	50V	
	Z(−25℃)/Z(+20℃)	3	2	2	2	2	
	Z(−40℃)/Z(+20℃)	6	4	4	4	4	(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 for 10000 hours (5000 hours for ϕ10) at 125℃.						
	Capacitance change	≦±30% of the initial value					
	D.F. (tanδ)	≦±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 1000 hours at 125℃ 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 (Radial Lead Type=VB) [mm]



Gas escape end seal

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

GXL 10 VB 3300 M

- M : Cap tolerance (±20%)
- 3300 : Nominal cap code
- VB : Radial lead type
- 10 : Rated voltage in volts
- GXL : Series name

Capacitance	Code
100μF	100
470μF	470
1000μF	1000

◆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

CAT. No. E1001D

New!
GXL Series

◆STANDARD RATINGS

Vdc / Items / Capacitance (μF)	10			16		
	Case size φD×L (mm)	Impedance (Ωmax./ 20℃, 100kHz)	Rated ripple current (mArms/ 125℃, 100kHz)	Case size φD×L (mm)	Impedance (Ωmax./ 20℃, 100kHz)	Rated ripple current (mArms/ 125℃, 100kHz)
220	—	—	—	10×12.5	0.17	800
330	10×12.5	0.17	800	10×12.5	0.17	800
470	10×12.5	0.17	800	10×16	0.12	1,050
1,000	10×20	0.094	1,300	12.5×20	0.067	1,650
2,200	12.5×25	0.055	2,050	16×25	0.035	2,500
3,300	16×25	0.035	2,500	16×31.5	0.027	3,000
4,700	16×31.5	0.027	3,000	—	—	—

Vdc / Items / Capacitance (μF)	25			35		
	Case size φD×L (mm)	Impedance (Ωmax./ 20℃, 100kHz)	Rated ripple current (mArms/ 125℃, 100kHz)	Case size φD×L (mm)	Impedance (Ωmax./ 20℃, 100kHz)	Rated ripple current (mArms/ 125℃, 100kHz)
100	—	—	—	10×12.5	0.17	800
220	10×12.5	0.17	800	10×16	0.12	1,050
330	10×16	0.12	1,050	10×20	0.094	1,300
470	10×20	0.094	1,300	12.5×20	0.067	1,650
1,000	12.5×25	0.055	2,050	16×25	0.035	2,500
2,200	16×31.5	0.027	3,000	—	—	—

Vdc / Items / Capacitance (μF)	50		
	Case size φD×L (mm)	Impedance (Ωmax./ 20℃, 100kHz)	Rated ripple current (mArms/ 125℃, 100kHz)
100	10×12.5	0.30	590
220	10×20	0.19	970
330	12.5×20	0.11	1,380
470	12.5×25	0.085	1,700
1,000	16×31.5	0.043	2,490