



- Endurance with ripple current : 3,000 hours at 125°C
- Suitable for the communication infrastructure power supply and other high temperature applications.
- Non solvent resistant type
- RoHS2 Compliant

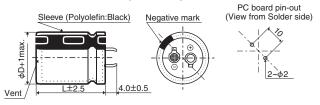


SPECIFICATIONS

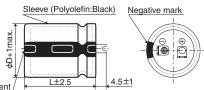
Items	Characteristics							
Category Temperature Range	-40 to +125℃							
Rated Voltage Range	400 & 450V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I≦3 \sqrt{CV} Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)							
Dissipation Factor	Rated voltage (Vdc)	400 & 450V						
(tan δ)	tan δ (Max.)	0.20			(at 20℃, 120Hz)			
Low Temperature	Rated voltage (Vdc)	400 & 450V						
Characteristics	Z(-25°C)/Z(+20°C)	8						
(Max. Impedance Ratio)			•		(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 3,000 hours at 125°C.							
	Capacitance change	≤±20% of the init	tial value					
	D.F. (tan δ)	≦200% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 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.							
	Capacitance change	≦±15% of the init	tial value					
	D.F. (tan δ)	≦150% of the initi	al specified value					
	Leakage current	≦The initial specif	ied value					

◆DIMENSIONS [mm]

•Terminal Code : VS (φ30, φ35) : Standard



■Terminal Code : LI (φ35)

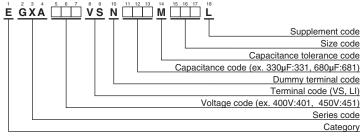


PC board pin-out (View from Solder side)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"





STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 125°C, 120Hz)	Part No.	WV (V _{dc})
	270	30 × 30	0.20	1.24	EGXA401VSN271MR30L	
	330	30 × 35	0.20	1.41	EGXA401VSN331MR35L	
	330	35 × 30	0.20	1.48	EGXA401VSN331MA30L	
	390	30 × 40	0.20	1.57	EGXA401VSN391MR40L	
	390	30 × 45	0.20	1.61	EGXA401VSN391MR45L	450
	390	35 × 35	0.20	1.64	EGXA401VSN391MA35L	
400	470	30 × 50	0.20	1.80	EGXA401VSN471MR50L	
400	470	35 × 40	0.20	1.86	EGXA401VSN471MA40L	450
	560	30 × 55	0.20	2.01	EGXA401VSN561MR55L	
	560	30 × 60	0.20	2.04	EGXA401VSN561MR60L	
	560	35 × 45	0.20	2.08	EGXA401VSN561MA45L	
	680	35 × 50	0.20	2.34	EGXA401VSN681MA50L	
	680	35 × 55	0.20	2.39	EGXA401VSN681MA55L	
	820	35 × 60	0.20	2.67	EGXA401VSN821MA60L	

	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 125°C, 120Hz)	Part No.
		220	30 × 30	0.20	1.12	EGXA451VSN221MR30L
١		270	30×35	0.20	1.27	EGXA451VSN271MR35L
		270	30 × 40	0.20	1.31	EGXA451VSN271MR40L
		270	35 × 30	0.20	1.34	EGXA451VSN271MA30L
	450	330	30 × 45	0.20	1.48	EGXA451VSN331MR45L
		330	35 × 35	0.20	1.51	EGXA451VSN331MA35L
		390	30 × 50	0.20	1.64	EGXA451VSN391MR50L
		390	35 × 40	0.20	1.70	EGXA451VSN391MA40L
		470	30 × 55	0.20	1.84	EGXA451VSN471MR55L
		470	30×60	0.20	1.87	EGXA451VSN471MR60L
		470	35 × 45	0.20	1.91	EGXA451VSN471MA45L
		560	35 × 50	0.20	2.13	EGXA451VSN561MA50L
		560	35 × 55	0.20	2.17	EGXA451VSN561MA55L
		680	35 × 60	0.20	2.43	EGXA451VSN681MA60L

PRATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
400 & 450V _{dc}	0.77	1.00	1.16	1.30	1.41	1.43

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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 - The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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 - 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
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type

Mouser Electronics

Authorized Distributor

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

Chemi-Con:

<u>EGXA451VSN331MA35L</u> <u>EGXA451VSN391MA40L</u> <u>EGXA451VSN471MA45L</u> <u>EGXA451VSN221MR30L</u> <u>EGXA451VSN271MR35L</u> <u>EGXA401VSN471MA40L</u> <u>EGXA401VSN271MR30L</u> <u>EGXA401VSN331MA30L</u> <u>EGXA401VSN331MR35L</u>