

TXH Series

- Endurance with ripple current : 10,000 hours at 105°C
- Non solvent resistant type
- RoHS2 Compliant



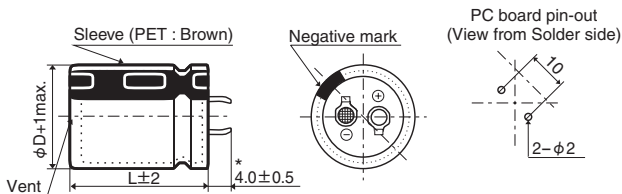
SPECIFICATIONS

Items	Characteristics		
Category	-25 to +105°C		
Temperature Range	-25 to +105°C		
Rated Voltage Range	200 to 450V _{dc}		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 3√CV Where, I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)		
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	200 to 400V	450V
	tan δ (Max.)	0.15	0.20
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	200 to 400V	450V
	Z (-25°C)/Z (+20°C)	4	8
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 10,000 hours at 105°C.		
	Capacitance change	≤ ±20% of the initial value	
	D.F. (tan δ)	≤ 200% 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°C after exposing them for 1,000 hours at 105°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 initial value	
	D.F. (tan δ)	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

DIMENSIONS [mm]

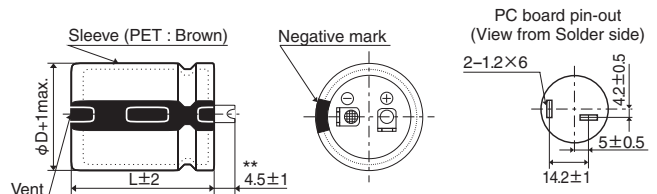
Terminal Code : VS (φ30 to φ40) : Standard

Terminal Code : LI (φ35, φ40)



* φD=40mm : 3.5±0.5mm

The standard design has no plastic disc.



** φD=40mm : 4.0±1

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/105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/105°C, 120Hz)	Part No.
200	560	30 × 30	0.15	1.50	ETXH201VSN561MR30S	400	220	30 × 35	0.15	1.00	ETXH401VSN221MR35S
	680	30 × 35	0.15	1.70	ETXH201VSN681MR35S		270	30 × 40	0.15	1.15	ETXH401VSN271MR40S
	820	30 × 40	0.15	2.00	ETXH201VSN821MR40S		270	35 × 30	0.15	1.13	ETXH401VSN271MA30S
	820	35 × 30	0.15	2.00	ETXH201VSN821MA30S		330	30 × 45	0.15	1.29	ETXH401VSN331MR45S
	1,000	30 × 45	0.15	2.20	ETXH201VSN102MR45S		330	35 × 35	0.15	1.26	ETXH401VSN331MA35S
	1,000	35 × 35	0.15	2.20	ETXH201VSN102MA35S		330	40 × 30	0.15	1.28	ETXH401VSN331MB30S
	1,000	40 × 30	0.15	2.17	ETXH201VSN102MB30S		390	30 × 50	0.15	1.44	ETXH401VSN391MR50S
	1,200	35 × 40	0.15	2.40	ETXH201VSN122MA40S		390	35 × 40	0.15	1.43	ETXH401VSN391MA40S
	1,200	40 × 35	0.15	2.45	ETXH201VSN122MB35S		470	35 × 45	0.15	1.60	ETXH401VSN471MA45S
	1,500	35 × 50	0.15	2.81	ETXH201VSN152MA50S		470	40 × 35	0.15	1.58	ETXH401VSN471MB35S
	1,500	40 × 40	0.15	2.79	ETXH201VSN152MB40S		560	35 × 50	0.15	1.79	ETXH401VSN561MA50S
	1,800	40 × 50	0.15	3.24	ETXH201VSN182MB50S		560	40 × 40	0.15	1.78	ETXH401VSN561MB40S
250	390	30 × 30	0.15	1.30	ETXH251VSN391MR30S	680	40 × 50	0.15	2.05	ETXH401VSN681MB50S	
	470	30 × 35	0.15	1.42	ETXH251VSN471MR35S	820	40 × 60	0.15	2.36	ETXH401VSN821MB60S	
	560	35 × 30	0.15	1.58	ETXH251VSN561MA30S	450	220	30 × 40	0.20	1.04	ETXH451VSN221MR40S
	680	30 × 45	0.15	1.80	ETXH251VSN681MR45S		220	35 × 30	0.20	1.02	ETXH451VSN221MA30S
	680	35 × 35	0.15	1.76	ETXH251VSN681MA35S		270	30 × 45	0.20	1.19	ETXH451VSN271MR45S
	820	30 × 50	0.15	2.03	ETXH251VSN821MR50S		270	35 × 35	0.20	1.16	ETXH451VSN271MA35S
	820	35 × 40	0.15	2.01	ETXH251VSN821MA40S		330	30 × 50	0.20	1.33	ETXH451VSN331MR50S
	820	40 × 30	0.15	1.96	ETXH251VSN821MB30S		330	35 × 40	0.20	1.32	ETXH451VSN331MA40S
	1,000	35 × 45	0.15	2.30	ETXH251VSN102MA45S		390	35 × 45	0.20	1.48	ETXH451VSN391MA45S
	1,000	40 × 35	0.15	2.27	ETXH251VSN102MB35S		470	35 × 50	0.20	1.64	ETXH451VSN471MA50S
	1,200	35 × 50	0.15	2.55	ETXH251VSN122MA50S		560	40 × 60	0.20	1.98	ETXH451VSN561MB60S
	1,200	40 × 40	0.15	2.53	ETXH251VSN122MB40S						
1,500	40 × 50	0.15	2.96	ETXH251VSN152MB50S							
1,800	40 × 60	0.15	3.39	ETXH251VSN182MB60S							

◆ RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
200, 250V _{dc}	0.81	1.00	1.17	1.32	1.45	1.50
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.
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- 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
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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.

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

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