

VXS SERIES

105°C 5000hours, Charge-Discharge Facility, Snap-in Terminal Type

◆FEATURES

- Load Life : 105°C 5000 hours.
- Specified the endurance of 100million times Charge-Discharge load.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-25~+105°C															
Rated Voltage Range	315~450V.DC															
Capacitance Tolerance	±20%(20°C,120Hz)															
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(μ A) C =Capacitance(μ F) V =Rated Voltage(V)															
Dissipation Factor(MAX) (tan δ)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>315~450</td> </tr> <tr> <td>tanδ</td> <td>0.20</td> </tr> </table>	Rated Voltage(V)	315~450	tan δ	0.20	(20°C,120Hz)										
Rated Voltage(V)	315~450															
tan δ	0.20															
Charge-Discharge endurance	After applying the following charge discharge load for 100million times, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Charge voltage</td> <td>Rated voltage:VR[V]</td> </tr> <tr> <td>Discharge voltage</td> <td>Rated Voltage-150V:VR-150 [V]</td> </tr> <tr> <td>Charge-Discharge frequency</td> <td>Refer to Standard Size table</td> </tr> <tr> <td>Charge-Discharge Resistance</td> <td>Refer to Standard Size table</td> </tr> </table> <div style="float: right; text-align: center;"> </div> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Charge voltage	Rated voltage:VR[V]	Discharge voltage	Rated Voltage-150V:VR-150 [V]	Charge-Discharge frequency	Refer to Standard Size table	Charge-Discharge Resistance	Refer to Standard Size table	Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.
Charge voltage	Rated voltage:VR[V]															
Discharge voltage	Rated Voltage-150V:VR-150 [V]															
Charge-Discharge frequency	Refer to Standard Size table															
Charge-Discharge Resistance	Refer to Standard Size table															
Capacitance Change	Within ±20% of the initial value.															
Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.								
Capacitance Change	Within ±20% of the initial value.															
Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>315~450</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> </tr> </table>	Rated Voltage(V)	315~450	Z(-25°C)/Z(20°C)	8	(120Hz)										
Rated Voltage(V)	315~450															
Z(-25°C)/Z(20°C)	8															

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60	120	300	500	1k	10k \leq
Coefficient	315~450WV	0.80	1.00	1.16	1.20	1.30	1.40

◆OPTION

	Code
PET sleeve without plate	EFC

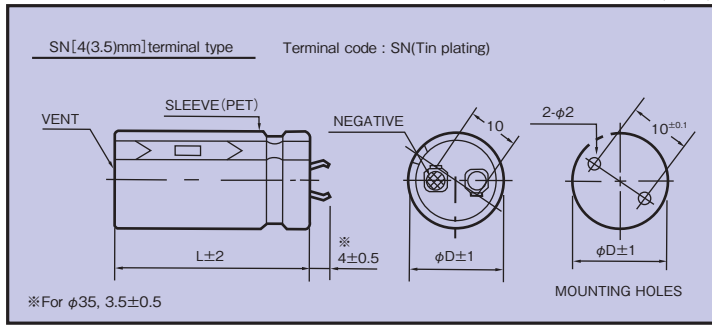
◆PART NUMBER

□□□ / VXS
 □□□□□ / M
 □□□ / SN
 DXL /

Rated Voltage Series Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

V _{DC} Cap(μF) φD	315				350			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
120					22x25;0.74; 46; 10			
150	22x25;0.82; 46; 10				22x30;0.89; 41; 10	25x25;0.85; 51; 10		
180	22x30;0.95; 41; 10				22x35;1.02; 37; 10	25x30;0.99; 38; 10		
220	22x35;1.11; 37; 10	25x25;0.98; 43; 10			22x40;1.17; 34; 10	25x30;1.08; 38; 10	30x25;1.12; 38; 10	
270	22x40;1.28; 34; 10	25x30;1.17; 38; 9	30x25;1.22; 38; 9		22x45;1.34; 32; 10	25x35;1.25; 35; 10	30x30;1.34; 42; 8	35x25;1.29; 36; 10
330	22x45;1.45; 32; 9	25x35;1.35; 35; 8	30x30;1.44; 34; 7			25x40;1.43; 32; 9	30x35;1.53; 31; 8	35x30;1.51; 32; 8
390	22x50;1.62; 30; 8	25x40;1.53; 32; 7	30x30;1.55; 34; 6	35x25;1.5; 35; 7		25x45;1.61; 30; 8	30x35;1.65; 31; 7	35x30;1.58; 32; 8
470		25x45;1.73; 30; 7	30x35;1.78; 31; 6	35x30;1.67; 31; 6			30x40;2.06; 29; 6	35x35;1.87; 29; 7
560		25x50;1.99; 28; 6	30x40;2.21; 29; 5	35x35;2.00; 29; 6			30x45;2.11; 27; 6	35x40;2.11; 27; 6
680			30x45;2.29; 27; 4	35x40;2.49; 27; 4				35x45;2.40; 25; 5
820			30x50;2.66; 26; 4	35x45;2.59; 25; 4				35x50;2.69; 24; 5
1000				35x50;2.92; 24; 4				

V _{DC} Cap(μF) φD	385				400			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
100	22x25;0.67; 46; 10				22x25;0.67; 46; 10			
120	22x30;0.78; 41; 10				22x30;0.79; 41; 10	25x25;0.76; 42; 10		
150	22x35;0.92; 37; 10	25x25;0.83; 43; 10			22x35;0.92; 37; 10	25x30;0.91; 38; 10		
180	22x40;1.05; 34; 10	25x30;0.97; 38; 10	30x25;1.00; 38; 10		22x40;1.05; 34; 10	25x30;0.97; 38; 10	30x25;1.00; 38; 10	
220	22x45;1.19; 32; 10	25x35;1.13; 35; 10	30x30;1.17; 34; 10	35x25;1.17; 43; 10	22x45;1.20; 32; 10	25x35;1.13; 35; 10	30x30;1.20; 34; 10	35x25;1.15; 35; 10
270	22x50;1.36; 30; 10	25x40;1.29; 32; 10	30x30;1.29; 34; 9	35x30;1.34; 32; 10		25x40;1.30; 32; 10	30x35;1.36; 31; 9	35x30;1.35; 32; 10
330		25x45;1.47; 30; 10	30x35;1.49; 31; 8	35x30;1.44; 32; 9		25x50;1.54; 28; 10	30x35;1.50; 31; 8	35x30;1.48; 32; 9
390			30x40;1.83; 29; 7	35x35;1.68; 29; 8			30x40;1.85; 29; 8	35x35;1.68; 29; 8
470			30x45;1.90; 27; 7	35x40;1.94; 27; 7			30x50;1.98; 26; 8	35x40;1.92; 27; 7
560			30x50;2.00; 26; 6	35x45;2.14; 25; 7				35x45;2.15; 25; 7
680				35x50;2.42; 24; 6				35x50;2.43; 24; 6

V _{DC} Cap(μF) φD	420				450			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
82	22x25;0.60; 46; 10				22x25;0.61; 46; 10			
100	22x30;0.71; 41; 10				22x30;0.72; 41; 10			
120	22x30;0.77; 41; 10	25x25;0.74; 42; 10			22x35;0.82; 37; 10	25x25;0.75; 42; 10		
150	22x35;0.90; 37; 10	25x30;0.89; 38; 10			22x40;0.96; 34; 10	25x30;0.89; 38; 10	30x25;0.91; 38; 10	
180	22x40;1.03; 34; 10	25x35;1.01; 35; 10	30x25;0.98; 38; 10		22x45;1.08; 32; 10	25x35;1.03; 35; 10	30x30;1.06; 34; 10	35x25;1.04; 35; 10
220	22x50;1.22; 30; 10	25x35;1.10; 35; 10	30x30;1.15; 34; 10	35x25;1.13; 35; 10	22x50;1.14; 30; 10	25x40;1.18; 32; 10	30x30;1.17; 34; 10	35x30;1.21; 32; 10
270		25x45;1.33; 30; 10	30x35;1.33; 31; 10	35x30;1.35; 32; 10		25x45;1.34; 30; 10	30x35;1.35; 31; 10	35x30;1.34; 32; 10
330		25x50;1.50; 28; 10	30x40;1.53; 29; 10	35x35;1.53; 29; 10			30x40;1.55; 29; 10	35x35;1.55; 29; 10
390			30x45;1.72; 27; 9	35x35;1.65; 29; 8			30x50;1.80; 32; 9	35x40;1.75; 27; 9
470			30x50;1.93; 26; 8	35x40;1.88; 27; 7				35x45;1.97; 25; 8
560				35x45;2.11; 25; 7				35x50;2.21; 24; 7

