

VXP SERIES

105°C 5000 hours, Snap-in Terminal Type.

FEATURES

- Load Life : 105°C 5000 hours.



◆ SPECIFICATIONS

Items	Characteristics																							
Operating Temperature Range	-40~+105°C	-25~+105°C																						
Rated Voltage Range	10~100V.DC	160~400V.DC																						
Capacitance Tolerance	±20%(20°C, 120Hz)																							
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=Leakage Current(μA) V=Rated Voltage(V) C=Nominal Capacitance(μF)																							
Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160~250</th> <th>315~400</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.55</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table> (20°C, 120Hz)		Rated Voltage (V)	10	16	25	35	50	63	80	100	160~250	315~400	tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20
Rated Voltage (V)	10	16	25	35	50	63	80	100	160~250	315~400														
tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20														
Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10~100</th> <th>160~250</th> <th>315~450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>8</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td></td> <td></td> </tr> </tbody> </table> (120Hz)		Rated Voltage (V)	10~100	160~250	315~450	Z(-25°C)/Z(20°C)	3	3	8	Z(-40°C)/Z(20°C)	12												
Rated Voltage (V)	10~100	160~250	315~450																					
Z(-25°C)/Z(20°C)	3	3	8																					
Z(-40°C)/Z(20°C)	12																							
Load Life	After applying rated voltage with max. ripple current for 5000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20%(For 10WV ; ±25%)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> </tbody> </table>		Capacitance Change	Within ±20%(For 10WV ; ±25%)of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																
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◆ EXPLANATION OF PART NUMBER

□□□ VXP □□□□□ □ □□ □□□
 Rated Voltage Series Nominal Capacitance Capacitance Tolerance Terminal Code Size Code

◆ SIZE CODE

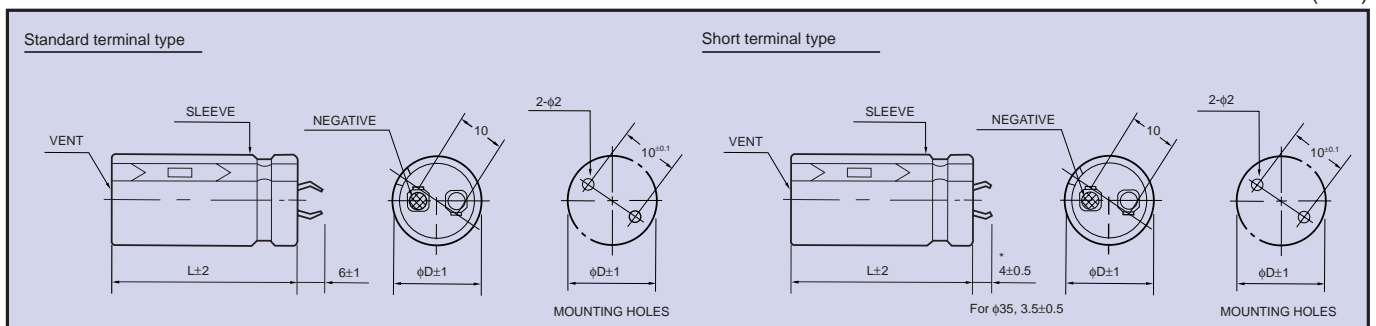
L	φD	22	25	30	35
25		A25	B25	C25	D25
30		A30	B30	C30	D30
35		A35	B35	C35	D35
40		A40	B40	C40	D40
45		A45	B45	C45	D45
50		A50	B50	C50	D50

◆ Terminal Code

	Code
Standard Terminal	Blank
Short Terminal	ST

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

Cap(μF) \ WV φD	10				16							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35				
5600					22x25	1.44						
6800					22x30	1.66						
8200	22x25	1.36			22x30	1.79	25x25	1.67				
10000	22x30	1.65			22x35	2.08	25x30	2.07				
12000	22x35	1.85	25x25	1.82	22x40	2.36	25x35	2.37	30x25	2.13		
15000	22x40	2.12	25x30	2.11	30x25	2.14	22x45	2.69	25x40	2.72	30x30	2.54
18000	22x45	2.40	25x35	2.32	30x30	2.37	25x45	3.06	30x35	3.02	35x30	3.09
22000			25x40	2.59	30x30	2.73	25x50	3.39	30x40	3.46	35x30	3.31
27000			25x45	3.01	30x35	3.13	35x30	3.05	30x45	3.88	35x35	3.85
33000			25x50	3.43	30x40	3.53	35x35	3.49	30x50	4.33	35x40	4.33
39000					30x45	3.78	35x40	3.96			35x45	4.96
47000					30x50	4.58	35x45	4.60			35x50	5.49
56000					35x50	5.06						

Cap(μF) \ WV φD	25				35							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35				
2700					22x25	1.29						
3300					22x30	1.54						
3900	22x25	1.31			22x35	1.77	25x25	1.55				
4700	22x30	1.55			22x40	2.01	25x30	1.87				
5600	22x35	1.77	25x25	1.56	22x45	2.25	25x35	2.18	30x25	1.80		
6800	22x40	2.02	25x30	1.88	22x50	2.49	25x40	2.45	30x30	2.28		
8200	22x45	2.27	25x35	2.18	30x25	1.92	25x45	2.80	30x35	2.69		
10000	22x50	2.56	25x40	2.53	30x30	2.38			30x40	3.04	35x30	2.78
12000			25x45	2.79	30x35	2.70	35x30	2.76	30x45	3.38	35x35	3.30
15000					30x40	3.13	35x30	3.00			35x40	3.88
18000					30x45	3.52	35x35	3.50			35x45	4.40
22000					30x50	3.92	35x40	3.95				
27000					35x50	4.72						

Cap(μF) \ WV φD	50				63							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35				
1000					22x25	1.10						
1200					22x25	1.17						
1500	22x25	1.21			22x30	1.41	25x25	1.38				
1800	22x25	1.28			22x35	1.62	25x30	1.63				
2200	22x30	1.52	25x25	1.46	22x40	1.85	25x30	1.75	30x25	1.66		
2700	22x35	1.77	25x30	1.76	22x45	2.10	25x35	2.03	30x30	2.01		
3300	22x40	2.02	25x30	1.87	30x25	1.72	25x40	2.33	30x30	2.15		
3900	22x45	2.27	25x35	2.20	30x30	2.09	25x45	2.58	30x35	2.46	35x30	2.31
4700			25x40	2.43	30x30	2.22			30x40	2.82	35x35	2.77
5600			25x45	2.72	30x35	2.58	35x30	2.35	30x45	3.22	35x40	3.20
6800					30x40	3.01	35x35	2.91			35x45	3.61
8200					30x50	3.63	35x40	3.36			35x50	3.94
10000							35x45	3.79				
12000							35x50	4.06				

Cap(μF) \ WV φD	80				100							
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35				
560					22x25	1.01						
680					22x30	1.19						
820	22x25	1.09			22x35	1.33	25x25	1.26				
1000	22x30	1.29			22x40	1.56	25x30	1.52	30x25	1.47		
1200	22x35	1.48	25x25	1.32	22x45	1.76	25x35	1.76	30x30	1.76		
1500	22x40	1.70	25x30	1.74	30x25	1.58	22x50	2.00	25x40	2.03	30x30	1.89
1800	22x45	1.91	25x35	1.86	30x25	1.68	25x45	2.29	30x35	2.19	35x30	2.05
2200			25x45	2.22	30x30	2.02			30x40	2.52	35x35	2.48
2700					30x35	2.50	35x30	2.18	30x45	2.86	35x40	2.87
3300					30x40	2.69	35x35	2.60			35x45	3.25
3900					30x45	2.94	35x40	3.00			35x50	3.56
4700							35x45	3.44				
5600							35x50	3.72				

↑ Ripple Current A r.m.s./120Hz·105°C
Case Size φD^{±1}xL^{±2}(mm)

◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

Cap(μF)	WV φD	160				180								
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35					
220	22x25	0.63				22x25	0.63							
270	22x30	0.76				22x30	0.76	25x25	0.76					
330	22x35	0.90	25x25	0.84		22x35	0.90	25x30	0.90					
390	22x35	0.97	25x30	0.97	30x25	1.00	22x40	1.03	25x35	1.06	30x25	1.02		
470	22x40	1.11	25x35	1.14	30x30	1.17	22x45	1.17	25x35	1.15	30x30	1.17		
560	22x45	1.26	25x35	1.23	30x30	1.26	22x50	1.32	25x40	1.32	30x35	1.33		
680	22x50	1.44	25x40	1.43	30x35	1.50		25x45	1.51	30x35	1.50	35x30	1.49	
820			25x45	1.63	30x40	1.66	35x30	1.63	25x50	1.71	30x40	1.74	35x35	1.75
1000					30x45	1.89	35x35	1.89			30x45	2.01	35x40	2.07
1200					30x50	2.16	35x40	2.23			30x50	2.25	35x45	2.23
1500							35x45	2.61					35x50	2.76
1800							35x50	2.97						

Cap(μF)	WV φD	200				250							
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35				
150						22x25	0.52						
180	22x25	0.57				22x30	0.64	25x25	0.62				
220	22x30	0.70				22x35	0.76	25x30	0.76				
270	22x35	0.83	25x25	0.76		22x40	0.88	25x35	0.90	30x25	0.85		
330	22x40	0.96	25x30	0.90		22x45	1.01	25x35	0.99	30x30	1.00		
390	22x40	1.03	25x35	1.06	30x25	1.02	22x50	1.13	25x40	1.13	30x35	1.15	
470	22x45	1.17	25x40	1.22	30x30	1.17		25x45	1.29	30x35	1.28	35x30	1.24
560			25x45	1.39	30x35	1.38		25x50	1.45	30x40	1.48	35x35	1.49
680			25x50	1.58	30x40	1.61	35x30	1.49		30x45	1.71	35x40	1.74
820					30x45	1.85	35x35	1.75		30x50	1.94	35x40	1.89
1000					30x50	2.11	35x40	2.07				35x45	2.20
1200							35x45	2.38					
1500							35x50	2.76					

Cap(μF)	WV φD	315				350								
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35					
68	22x25	0.32				22x25	0.34							
82	22x30	0.38				22x30	0.40							
100	22x30	0.42	25x25	0.41		22x30	0.46	25x25	0.47					
120	22x35	0.48	25x30	0.49		22x35	0.52	25x30	0.53	30x25	0.53			
150	22x40	0.56	25x30	0.53	30x25	0.51	22x40	0.59	25x35	0.60	30x25	0.60		
180	22x45	0.63	25x35	0.62	30x30	0.63	22x45	0.68	25x40	0.70	30x30	0.71		
220	22x50	0.72	25x40	0.71	30x35	0.74	22x50	0.78	25x45	0.82	30x35	0.82		
270			25x45	0.81	30x40	0.85	35x30	0.75	25x50	0.94	30x40	0.93	35x30	0.90
330			25x50	0.92	30x40	0.91	35x35	0.90			30x45	1.05	35x35	1.01
390					30x45	1.04	35x40	1.05			30x50	1.18	35x40	1.13
470					30x50	1.15	35x45	1.18					35x45	1.26
560							35x50	1.34					35x50	1.39

Cap(μF)	WV φD	400						
		φ22	φ25	φ30	φ35			
68	22x30	0.38						
82	22x30	0.43	25x25	0.41				
100	22x35	0.46	25x30	0.48	30x25	0.48		
120	22x40	0.53	25x35	0.55	30x30	0.56		
150	22x50	0.63	25x40	0.65	30x30	0.65		
180			25x45	0.72	30x35	0.74		
220			25x50	0.79	30x40	0.85	35x30	0.89
270					30x45	0.98	35x35	0.96
330					30x50	1.12	35x40	1.12
390							35x45	1.27
470							35x50	1.33

↑ Ripple Current A r.m.s./120Hz-105°C
 Case Size φD^{±1}xL^{±2}(mm)

◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Temperature coefficient

Ambient Temperature (°C)	105	85	65≥
Coefficient	1.0	2.0	2.4

(2) Frequency coefficient

Frequency (Hz)		60	120	500	1k	10k≤
Coefficient	10~100WV	0.90	1.00	1.05	1.10	1.15
	160~250WV	0.80	1.00	1.20	1.30	1.50
	315~400WV	0.80	1.00	1.20	1.25	1.40