

VXG SERIES

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

◆FEATURES

- Load Life : 105°C 5000 hours.
- Smaller size with higher ripple current endurance than VXP series.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																																											
Category Temperature Range	-40 ~+105℃								-25 ~+105℃																																			
Rated Voltage Range	10~100V.DC								200~450V.DC																																			
Capacitance Tolerance	± 20%(20℃, 120Hz)																																											
Leakage Current(MAX)	I=3 √CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) V=Rated Voltage(V) C=Rated Capacitance(μF)																																											
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage(V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>200~250</td><td>400~450</td></tr><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>0.20</td><td>0.20</td></tr></table>										Rated Voltage(V)	10	16	25	35	50	63	80	100	200~250	400~450	tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20	0.20	(20℃, 120Hz)											
Rated Voltage(V)	10	16	25	35	50	63	80	100	200~250	400~450																																		
tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20	0.20																																		
Impedance Ratio(MAX)	<table><tr><td>Rated Voltage(V)</td><td colspan="2">10~100</td><td colspan="2">200~250</td><td colspan="2">400~450</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td colspan="2">3</td><td colspan="2">3</td><td colspan="2">8</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td colspan="2">12</td><td colspan="2">—</td><td colspan="2">—</td></tr></table>										Rated Voltage(V)	10~100		200~250		400~450		Z(-25℃)/Z(20℃)	3		3		8		Z(-40℃)/Z(20℃)	12		—		—		(120Hz)												
Rated Voltage(V)	10~100		200~250		400~450																																							
Z(-25℃)/Z(20℃)	3		3		8																																							
Z(-40℃)/Z(20℃)	12		—		—																																							
Endurance	After applying rated voltage with rated ripple current for 5000hrs at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="10">Within ± 20%(For 10WV ; ± 25%)of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="10">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="10">Not more than the specified value.</td></tr></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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◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz)		60(50)	120	500	1k	10k ≤
Coefficient	10~100WV	0.90	1.00	1.05	1.10	1.15
	200~250WV	0.80	1.00	1.20	1.30	1.50
	400~450WV	0.80	1.00	1.20	1.25	1.40

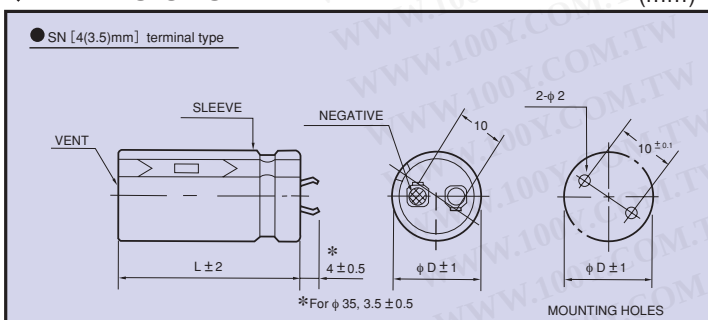
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◆PART NUMBER

□□□ VXG □□□□□ □ EFC SN D×L
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆DIMENSIONS

(mm)



◆ STANDARD SIZE

Cap(μF) WV φ D	10				16			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
5600					22×25 1.44			
6800					22×30 1.66			
8200	22×25 1.36				22×30 1.79	25×25 1.67		
10000	22×30 1.65				22×35 2.08	25×30 2.07		
12000	22×35 1.85	25×25 1.82			22×40 2.36	25×35 2.37	30×25 2.13	
15000	22×40 2.12	25×30 2.11	30×25 2.14		22×45 2.69	25×40 2.72	30×30 2.54	
18000	22×45 2.40	25×35 2.32	30×30 2.37			25×45 3.06	30×35 3.02	35×30 3.09
22000		25×40 2.59	30×30 2.73			25×50 3.39	30×40 3.46	35×30 3.31
27000		25×45 3.01	30×35 3.13	35×30 3.05			30×45 3.88	35×35 3.85
33000		25×50 3.43	30×40 3.53	35×35 3.49			30×50 4.33	35×40 4.33
39000			30×45 3.78	35×40 3.96				35×45 4.96
47000			30×50 4.58	35×45 4.60				35×50 5.49
56000				35×50 5.06				

Cap(μF) WV φ D	25				35			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
2700					22×25 1.29			
3300					22×30 1.54			
3900	22×25 1.31				22×35 1.77	25×25 1.55		
4700	22×30 1.55				22×40 2.01	25×30 1.87		
5600	22×35 1.77	25×25 1.56			22×45 2.25	25×35 2.18	30×25 1.80	
6800	22×40 2.02	25×30 1.88			22×50 2.49	25×40 2.45	30×30 2.28	
8200	22×45 2.27	25×35 2.18	30×25 1.92			25×45 2.80	30×35 2.69	
10000	22×50 2.56	25×40 2.53	30×30 2.38				30×40 3.04	35×30 2.78
12000		25×45 2.79	30×35 2.70	35×30 2.76			30×45 3.38	35×35 3.30
15000			30×40 3.13	35×30 3.00				35×40 3.88
18000			30×45 3.52	35×35 3.50				35×45 4.40
22000			30×50 3.92	35×40 3.95				
27000				35×50 4.72				

Cap(μF) WV φ D	50				63			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
1000					22×25 1.10			
1200					22×25 1.17			
1500	22×25 1.21				22×30 1.41	25×25 1.38		
1800	22×25 1.28				22×35 1.62	25×30 1.63		
2200	22×30 1.52	25×25 1.46			22×40 1.85	25×30 1.75	30×25 1.66	
2700	22×35 1.77	25×30 1.76			22×45 2.10	25×35 2.03	30×30 2.01	
3300	22×40 2.02	25×30 1.87	30×25 1.72			25×40 2.33	30×30 2.15	
3900	22×45 2.27	25×35 2.20	30×30 2.09			25×45 2.58	30×35 2.46	35×30 2.31
4700		25×40 2.43	30×30 2.22				30×40 2.82	35×35 2.77
5600		25×45 2.72	30×35 2.58	35×30 2.35			30×45 3.22	35×40 3.20
6800			30×40 3.01	35×35 2.91				35×45 3.61
8200			30×50 3.63	35×40 3.36				35×50 3.94
10000				35×45 3.79				
12000				35×50 4.06				

Cap(μF) WV φ D	80				100			
	φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35
560					22×25 1.01			
680					22×30 1.19			
820	22×25 1.09				22×35 1.33	25×25 1.26		
1000	22×30 1.29				22×40 1.56	25×30 1.52	30×25 1.47	
1200	22×35 1.48	25×25 1.32			22×45 1.76	25×35 1.76	30×30 1.76	
1500	22×40 1.70	25×30 1.74	30×25 1.58		22×50 2.00	25×40 2.03	30×30 1.89	
1800	22×45 1.91	25×35 1.86	30×25 1.68			25×45 2.29	30×35 2.19	35×30 2.05
2200		25×45 2.22	30×30 2.02				30×40 2.52	35×35 2.48
2700			30×35 2.50	35×30 2.18			30×45 2.86	35×40 2.87
3300			30×40 2.69	35×35 2.60				35×45 3.25
3900			30×45 2.94	35×40 3.00				35×50 3.56
4700				35×45 3.44				
5600				35×50 3.72				

↑ Ripple Current (A r.m.s./120Hz, 105°C)
Case Size φ D×L(mm)

◆ STANDARD SIZE

Cap(μF)	WV φ D	200						220									
		φ 22		φ 25		φ 30		φ 35		φ 22		φ 25		φ 30		φ 35	
270	22×25	1.09								22×25	1.04						
330	22×30	1.31								22×30	1.26						
390	22×30	1.32	25×25	1.27						22×35	1.47	25×25	1.21				
470	22×35	1.54	25×30	1.54						22×40	1.64	25×30	1.47				
560	22×40	1.75	25×30	1.54						22×45	1.86	25×35	1.71	30×25	1.41		
680	22×45	1.96	25×35	1.79	30×25	1.46				22×50	2.05	25×40	1.94	30×30	1.71	35×25	1.54
820	22×50	2.15	25×40	2.03	30×30	1.77	35×25	1.59				25×45	2.16	30×35	1.99	35×30	1.89
1000			25×45	2.26	30×35	2.06	35×30	1.93				25×50	2.37	30×40	2.26	35×35	2.15
1200					30×40	2.34	35×35	2.22						30×45	2.51	35×40	2.48
1500					30×45	2.60	35×40	2.56						30×50	2.75	35×40	2.50
1800							35×45	2.85								35×50	3.04
2200							35×50	3.14									

Cap(μF)	WV φ D	250				400					
		φ 22	φ 25	φ 30	φ 35	φ 22	φ 25	φ 30	φ 35		
82						22×25 0.64					
100						22×30 0.74					
120						22×30 0.79	25×25 0.79				
150						22×35 0.92	25×30 0.95				
180						22×40 1.05	25×35 1.10	30×25 0.97			
220	22×25 0.97					22×50 1.28	25×35 1.12	30×30 1.17	35×25 1.10		
270	22×30 1.18						25×45 1.40	30×35 1.36	35×30 1.33		
330	22×35 1.37	25×25 1.14					25×50 1.55	30×40 1.55	35×30 1.35		
390	22×40 1.56	25×30 1.38						30×45 1.72	35×35 1.53		
470	22×45 1.74	25×35 1.61	30×25 1.34					30×50 1.89	35×40 1.78		
560	22×50 1.92	25×40 1.83	30×30 1.63	35×25 1.48					35×45 1.98		
680		25×45 2.04	30×35 1.90	35×30 1.80					35×50 2.19		
820		25×50 2.24	30×40 2.15	35×30 1.81							
1000			30×45 2.39	35×35 2.38							
1200			30×50 2.62	35×40 2.39							
1500				35×50 2.92							

Cap(μF)	WV φ D	420								450							
		φ 22		φ 25		φ 30		φ 35		φ 22		φ 25		φ 30		φ 35	
82		22× 25	0.61							22×25	0.60						
100		22×30	0.74							22×30	0.73	25×25	0.72				
120		22×35	0.86	25×25	0.75					22×35	0.84	25×30	0.87				
150		22×40	0.98	25×30	0.90					22×40	0.97	25×30	0.89	30×25	0.90		
180		22×45	1.09	25×35	1.05	30×25	0.93			22×45	1.08	25×35	1.03	30×30	1.08		
220		22×50	1.21	25×40	1.19	30×30	1.12	35×25	1.05			25×40	1.17	30×30	1.10	35×25	1.04
270				25×45	1.34	30×35	1.30	35×30	1.27			25×50	1.43	30×35	1.28	35×30	1.25
330						30×40	1.47	35×35	1.45					30×45	1.45	35×35	1.43
390						30×45	1.64	35×40	1.68					30×50	1.75	35×40	1.66
470						30×50	1.81	35×40	1.71							35×45	1.85
560								35×50	2.07							35×50	2.04

↑ Ripple Current (A r.m.s./120Hz, 105°C)
Case Size φ D×L(mm)

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