

VXG 系列
SERIES

105°C 5000小时品
105°C 5000 hours

·105°C 5000小时品。
Load Life : 105°C 5000 hours.

RoHS
compliance



规格表 / SPECIFICATIONS

项目 Items	特性 Characteristics																											
工作温度范围 Category Temperature Range	-40~+105°C	-25~+105°C																										
额定电压范围 Rated Voltage Range	10~100Vdc	200~500Vdc																										
静电容量允许差 Capacitance Tolerance	±20% (20°C, 120Hz)																											
漏电流 Leakage Current (MAX)	$I=3\sqrt{CV}$ (施加额定电压5分钟后) $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=漏电流(µA) Leakage Current C=静电容量(µF) Capacitance V=额定电压(Vdc) Rated Voltage																											
损失角正切值 (tanδ) Dissipation Factor (MAX)	<table border="1"> <tr> <td>额定电压(Vdc) Rated Voltage</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> <td>475~500</td> <td>(20°C, 120Hz)</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> <td>0.25</td> <td></td> </tr> </table>		额定电压(Vdc) Rated Voltage	10	16	25	35	50	63	80	100	200~250	400~450	475~500	(20°C, 120Hz)	tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20	0.20	0.25	
额定电压(Vdc) Rated Voltage	10	16	25	35	50	63	80	100	200~250	400~450	475~500	(20°C, 120Hz)																
tanδ	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.20	0.20	0.25																	
耐久性 Endurance	在105°C环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载5000小时后, 满足以下各项要求。 After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements.																											
	静电容量变化率 Capacitance Change	初期值的±20%(10WV为±25%)以内 Within ±20%(For 10WV ; ±25%) of the initial value.																										
	损失角正切值 Dissipation Factor	规格值的200%以下 Not more than 200% of the specified value.																										
	漏电流 Leakage Current	规格值以下 Not more than the specified value.																										
低温特性 Low Temperature Stability (阻抗比) Impedance Ratio (MAX)	<table border="1"> <tr> <td>额定电压(Vdc) Rated Voltage</td> <td>10~100</td> <td>200~250</td> <td>400~450</td> <td>475~500</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>8</td> <td>12</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>-</td> <td>-</td> <td>-</td> <td></td> </tr> </table>		额定电压(Vdc) Rated Voltage	10~100	200~250	400~450	475~500	(120Hz)	Z(-25°C)/Z(20°C)	3	3	8	12		Z(-40°C)/Z(20°C)	12	-	-	-									
额定电压(Vdc) Rated Voltage	10~100	200~250	400~450	475~500	(120Hz)																							
Z(-25°C)/Z(20°C)	3	3	8	12																								
Z(-40°C)/Z(20°C)	12	-	-	-																								

纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT 副记号 / OPTION

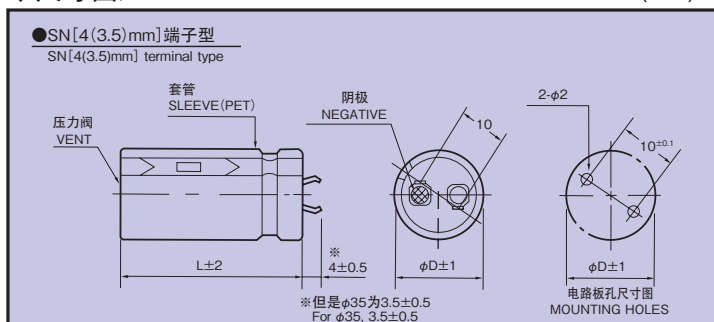
频率(Hz) Frequency	60(50)	120(100)	300	500	1k	10k≤
10~100Vdc	0.90	1.00	1.03	1.05	1.10	1.15
200~250Vdc	0.80	1.00	1.15	1.20	1.30	1.50
400~500Vdc	0.80	1.00	1.15	1.20	1.25	1.40

副记号	记号 Code
PET套管, 无底板 PET Sleeve without plate	EFC

产品型号体系 / PART NUMBER

□□□	VXG	□□□□□	M	□□□	SN	D×L
额定电压 Rated Voltage	系列名称 Series	静电容量 Capacitance	静电容量允许差 Capacitance Tolerance	副记号 Option	端子记号 Terminal Code	铝壳尺寸 Case Size

尺寸图 / DIMENSIONS



◆标准品一览表 / STANDARD SIZE

Cap(μF)	Vdc φD	10				16			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
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)	Vdc φD	25				35			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
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)	Vdc φD	50				63			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
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)	Vdc φD	80				100			
		φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
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				

↑ 纹波电流 Ripple Current (A r.m.s./120Hz, 105°C)
铝壳尺寸 Case Size φD×L(mm)

◆标准品一览表 / STANDARD SIZE

Cap(μF) \ Vdc φD	200				220			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
270	22×25: 1.31				22×25: 1.31			
330	22×30: 1.53				22×30: 1.53			
390	22×30: 1.61	25×25: 1.49			22×35: 1.73	25×25: 1.49		
470	22×35: 1.84	25×30: 1.75			22×40: 1.96	25×30: 1.73		
560	22×40: 2.07	25×30: 1.81			22×45: 2.18	25×35: 1.97	30×25: 1.60	
680	22×45: 2.32	25×35: 2.07	30×25: 1.67		22×50: 2.43	25×40: 2.23	30×30: 1.89	35×25: 1.58
820	22×50: 2.58	25×40: 2.33	30×30: 1.95	35×25: 1.65	22×60: 2.80	25×45: 2.48	30×35: 2.17	35×30: 1.91
1000		25×45: 2.62	30×35: 2.23	35×30: 1.94		25×50: 2.77	30×40: 2.43	35×35: 2.21
1200			30×40: 2.50	35×35: 2.24		25×60: 3.16	30×45: 2.68	35×40: 2.48
1500			30×45: 2.82	35×40: 2.56			30×50: 3.01	35×40: 2.50
1800				35×45: 2.85			30×60: 3.48	35×50: 3.04
2200				35×50: 3.14				35×60: 3.40

Cap(μF) \ Vdc φD	250				400			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
82					22×25: 0.77			
100					22×30: 0.89			
120					22×30: 0.96	25×25: 0.95		
150					22×35: 1.11	25×30: 1.11		
180					22×40: 1.25	25×35: 1.26	30×25: 1.16	
220	22×25: 1.22				22×50: 1.47	25×35: 1.35	30×30: 1.35	35×25: 1.26
270	22×30: 1.43				22×55: 1.65	25×45: 1.61	30×35: 1.54	35×30: 1.48
330	22×35: 1.64	25×25: 1.39				25×50: 1.80	30×40: 1.74	35×30: 1.54
390	22×40: 1.84	25×30: 1.65				25×55: 1.99	30×45: 1.93	35×35: 1.74
470	22×45: 2.06	25×35: 1.88	30×25: 1.55				30×50: 2.14	35×40: 1.95
560	22×50: 2.29	25×40: 2.11	30×30: 1.84	35×25: 1.56			30×60: 2.44	35×45: 2.19
680	22×55: 2.54	25×45: 2.36	30×35: 2.11	35×30: 1.80				35×50: 2.40
820		25×50: 2.61	30×40: 2.36	35×30: 1.81				35×60: 2.77
1000		25×60: 3.02	30×45: 2.63	35×35: 2.38				
1200			30×50: 2.85	35×40: 2.41				
1500			30×60: 3.31	35×50: 2.92				
1800				35×55: 3.12				

Cap(μF) \ Vdc φD	420				450			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
82	22×25: 0.75				22×25: 0.76			
100	22×30: 0.87				22×30: 0.88	25×25: 0.86		
120	22×35: 0.99	25×25: 0.93			22×35: 1.00	25×30: 0.99		
150	22×40: 1.14	25×30: 1.08			22×40: 1.14	25×30: 1.09	30×25: 1.08	
180	22×45: 1.28	25×35: 1.23	30×25: 1.14		22×45: 1.29	25×35: 1.23	30×30: 1.24	
220	22×50: 1.44	25×40: 1.39	30×30: 1.32	35×25: 1.24	22×55: 1.49	25×40: 1.40	30×30: 1.32	35×25: 1.23
270	22×60: 1.66	25×45: 1.57	30×35: 1.51	35×30: 1.45		25×50: 1.64	30×35: 1.51	35×30: 1.45
330		25×50: 1.77	30×40: 1.71	35×35: 1.66			30×45: 1.80	35×35: 1.65
390		25×60: 2.01	30×45: 1.89	35×40: 1.86			30×50: 1.98	35×40: 1.85
470			30×50: 2.09	35×40: 1.93			30×55: 2.19	35×45: 2.05
560			30×60: 2.39	35×50: 2.27				35×50: 2.26
680				35×55: 2.48				35×55: 2.49
820				35×60: 2.69				

Cap(μF) \ Vdc φD	475				500			
	φ22	φ25	φ30	φ35	φ22	φ25	φ30	φ35
47					22×25: 0.58			
56	22×25: 0.62				22×30: 0.66			
68	22×30: 0.71				22×30: 0.73	25×25: 0.72		
82	22×30: 0.77	25×25: 0.77			22×35: 0.83	25×30: 0.83	30×25: 0.83	
100	22×35: 0.89	25×30: 0.88			22×40: 0.94	25×35: 0.94	30×25: 0.91	
120	22×40: 1.00	25×30: 0.96	30×25: 0.96		22×50: 1.08	25×35: 1.02	30×30: 1.04	35×25: 1.01
150	22×45: 1.15	25×35: 1.11	30×30: 1.12		22×55: 1.24	25×45: 1.21	30×35: 1.19	35×30: 1.18
180	22×55: 1.32	25×40: 1.25	30×30: 1.20	35×25: 1.14	22×60: 1.38	25×50: 1.36	30×40: 1.34	35×30: 1.25
220		25×50: 1.45	30×35: 1.36	35×30: 1.33		25×55: 1.52	30×45: 1.51	35×40: 1.51
270		25×60: 1.68	30×40: 1.55	35×35: 1.52			30×50: 1.69	35×40: 1.62
330			30×55: 1.89	35×40: 1.71			30×55: 1.89	35×45: 1.81
390				35×50: 1.99				35×55: 2.08
470				35×60: 2.28				35×60: 2.28

↑ 纹波电流 Ripple Current (A r.m.s./120Hz, 105°C)
↑ 铝壳尺寸 Case Size φD×L(mm)