

**HXG SERIES**

105°C High Ripple Current, Miniaturized, Snap-in Terminal Type

◆ **FEATURES**

- Load Life: 105°C 3000hours.
- Higher Ripple current than MXG series.
- RoHS compliance.



◆ **SPECIFICATIONS**

Items	Characteristics						
Category Temperature Range	-25~+105°C						
Rated Voltage Range	400~450Vdc						
Capacitance Tolerance	±20%(20°C,120Hz)						
Leakage Current(MAX)	$I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) $I$ =Leakage Current( $\mu$ A) $C$ =Capacitance( $\mu$ F) $V$ =Rated Voltage(Vdc)						
(tan $\delta$ ) Dissipation Factor(MAX)	0.2 (20°C,120Hz)						
Endurance	After applying rated voltage with rated ripple current for 3000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">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" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Rated Voltage (Vdc)</td> <td style="width:20%;">400~450</td> <td style="width:60%;">(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> <td></td> </tr> </table>	Rated Voltage (Vdc)	400~450	(120Hz)	Z(-25°C)/Z(20°C)	8	
Rated Voltage (Vdc)	400~450	(120Hz)					
Z(-25°C)/Z(20°C)	8						

◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency (Hz)	60(50)	120(100)	300	500	1k	10k $\leq$
Coefficient	0.80	1.00	1.15	1.20	1.25	1.40

◆ **PART NUMBER**

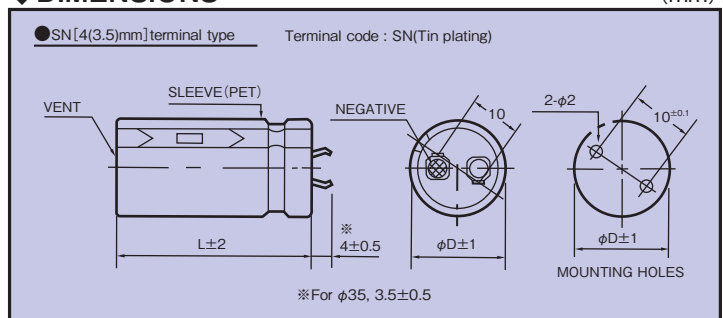
□□□    HXG    □□□□□    M    □□□    SN    D×L  
 Rated Voltage    Series    Capacitance    Capacitance Tolerance    Option    Terminal Code    Case Size

◆ **OPTION**

	Code
PET Sleeve without plate	EFC

◆ **DIMENSIONS**

(mm)



**◆ STANDARD SIZE**

Cap(μF) \ Vdc φD	400									
	φ20		φ22		φ25		φ30		φ35	
68	20×25	0.94								
82	20×25	1.01	22×25	1.07						
100	20×30	1.18	22×25	1.15						
120	20×35	1.35	22×30	1.34	25×25	1.31				
150	20×40	1.56	22×35	1.55	25×25	1.43				
180	20×45	1.76	22×40	1.76	25×30	1.65	30×25	1.68		
220			22×45	1.99	25×35	1.90	30×30	1.88		
270			22×50	2.24	25×40	2.16	30×30	2.01	35×25	2.12
330					25×50	2.55	30×35	2.31	35×30	2.33
390							30×40	2.59	35×35	2.52
470							30×50	3.04	35×40	2.85
560									35×45	3.18
680									35×50	3.47

Cap(μF) \ Vdc φD	420									
	φ20		φ22		φ25		φ30		φ35	
68	20×25	0.92								
82	20×30	1.07	22×25	1.05						
100	20×35	1.23	22×30	1.22	25×25	1.20				
120	20×40	1.40	22×30	1.31	25×25	1.29				
150	20×45	1.60	22×35	1.52	25×30	1.51	30×25	1.49		
180	20×50	1.79	22×40	1.72	25×35	1.73	30×25	1.59		
220			22×50	2.03	25×40	1.97	30×30	1.85	35×25	1.74
270					25×45	2.22	30×35	2.12	35×30	2.04
330							30×40	2.41	35×30	2.16
390							30×45	2.68	35×35	2.45
470							30×50	2.98	35×45	2.92
560									35×50	3.23

Cap(μF) \ Vdc φD	450									
	φ20		φ22		φ25		φ30		φ35	
56	20×25	0.85								
68	20×25	0.92	22×25	0.97						
82	20×30	1.07	22×25	1.05						
100	20×35	1.23	22×30	1.22	25×25	1.20				
120	20×40	1.40	22×35	1.39	25×25	1.29				
150	20×50	1.66	22×40	1.60	25×30	1.51	30×25	1.49		
180			22×45	1.80	25×35	1.73	30×30	1.72		
220					25×40	1.97	30×30	1.85	35×25	1.74
270					25×50	2.32	30×35	2.12	35×30	2.04
330							30×45	2.53	35×35	2.33
390							30×50	2.80	35×40	2.61
470									35×45	2.92
560									35×50	3.23

↑  
Ripple Current (A r.m.s./120Hz, 105°C)

↑  
Case Size φD×L(mm)