



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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HXG SERIES

105°C High Ripple Current, Miniaturized

*Load Life: 105°C 3000hours.

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(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) | | | | | | |
| Dissipation Factor(MAX) (tanδ) | 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="margin-left: 20px;"> <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" style="margin-left: 20px;"> <tr> <td>Rated Voltage (Vdc)</td> <td>400~450</td> <td>(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≤ |
|----------------|--------|----------|------|------|------|------|
| Coefficient | 0.80 | 1.00 | 1.15 | 1.20 | 1.25 | 1.40 |

◆OPTION

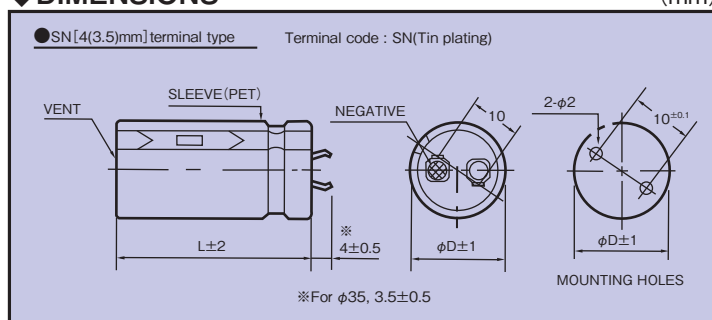
| | Code |
|--------------------------|------|
| PET Sleeve without plate | EFC |

◆PART NUMBER

□□□ HXG □□□□□ M □□□ SN DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆DIMENSIONS

(mm)



◆ STANDARD SIZE

| Cap(μF) | 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) | 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) | 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)