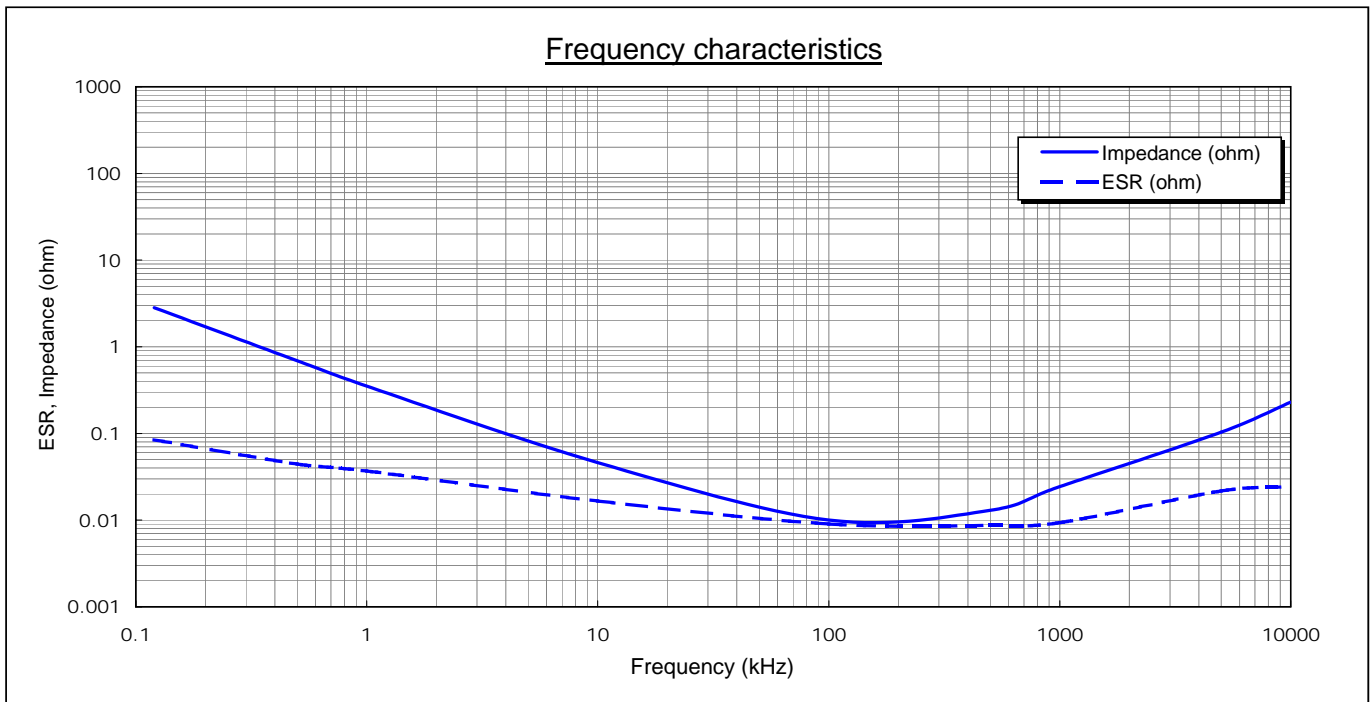


OS-CON 6SVP470M

OS-CON DATA SHEET

No.OS02N-DFSVP051

| | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (kHz) | 0.12 | 0.5 | 1 | 10 | 100 | 500 | 1000 | 5000 | 10000 |
| Impedance (ohm) | 2.824 | 0.691 | 0.353 | 0.046 | 0.010 | 0.013 | 0.024 | 0.103 | 0.230 |
| ESR (ohm) | 0.084 | 0.044 | 0.037 | 0.017 | 0.009 | 0.009 | 0.009 | 0.022 | 0.024 |



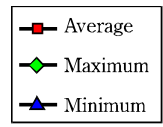
Measuring equipment: HP4194A
 Test fixture: HP16047C
 Measuring position: root of leads

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n = 3p.(Ave.)
 Room temperature

OS-CON DATA SHEET

| OS-CON™ SVP series | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|--------------------------|----------------|----------------|---|----|----|---|------|----|----|---|---|----------|--------------|--------------|--------------|---|-------|-------|------|------|-------|-------|------|
| Test item Endurance (After V.P.S test) | Test temperature 105 deg.C | Model 6SVP470M | | | | | | | | | | | | | | | | | | | | | | | |
| | Applied voltage 6.3V | Lot No. 130106406 | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="text-align: center;"> Change in capacitance (120Hz) </div> <table border="1" style="width: 100%; margin-top: 5px;"> <caption>Change in capacitance (120Hz) Data</caption> <thead> <tr> <th>Time [h]</th> <th>Average [%]</th> <th>Maximum [%]</th> <th>Minimum [%]</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>2000</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> | Time [h] | Average [%] | Maximum [%] | Minimum [%] | 0 | 0 | 0 | 0 | 2000 | 0 | 0 | 0 | <div style="text-align: center;"> Tangent of loss angle (120Hz) </div> <table border="1" style="width: 100%; margin-top: 5px;"> <caption>Tangent of loss angle (120Hz) Data</caption> <thead> <tr> <th>Time [h]</th> <th>Average</th> <th>Maximum</th> <th>Minimum</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.045</td> <td>0.055</td> <td>0.03</td> </tr> <tr> <td>2000</td> <td>0.045</td> <td>0.055</td> <td>0.03</td> </tr> </tbody> </table> | Time [h] | Average | Maximum | Minimum | 0 | 0.045 | 0.055 | 0.03 | 2000 | 0.045 | 0.055 | 0.03 |
| Time [h] | Average [%] | Maximum [%] | Minimum [%] | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Time [h] | Average | Maximum | Minimum | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0.045 | 0.055 | 0.03 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 0.045 | 0.055 | 0.03 | | | | | | | | | | | | | | | | | | | | | | |
| <div style="text-align: center;"> ESR (100kHz) </div> <table border="1" style="width: 100%; margin-top: 5px;"> <caption>ESR (100kHz) Data</caption> <thead> <tr> <th>Time [h]</th> <th>Average (mohm)</th> <th>Maximum (mohm)</th> <th>Minimum (mohm)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> <td>12</td> <td>8</td> </tr> <tr> <td>2000</td> <td>10</td> <td>12</td> <td>8</td> </tr> </tbody> </table> | Time [h] | Average (mohm) | Maximum (mohm) | Minimum (mohm) | 0 | 10 | 12 | 8 | 2000 | 10 | 12 | 8 | <div style="text-align: center;"> Leakage current (6.3V 60s) </div> <table border="1" style="width: 100%; margin-top: 5px;"> <caption>Leakage current (6.3V 60s) Data</caption> <thead> <tr> <th>Time [h]</th> <th>Average (µA)</th> <th>Maximum (µA)</th> <th>Minimum (µA)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>100</td> <td>400</td> <td>10</td> </tr> <tr> <td>2000</td> <td>100</td> <td>400</td> <td>10</td> </tr> </tbody> </table> | Time [h] | Average (µA) | Maximum (µA) | Minimum (µA) | 0 | 100 | 400 | 10 | 2000 | 100 | 400 | 10 |
| Time [h] | Average (mohm) | Maximum (mohm) | Minimum (mohm) | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 10 | 12 | 8 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 10 | 12 | 8 | | | | | | | | | | | | | | | | | | | | | | |
| Time [h] | Average (µA) | Maximum (µA) | Minimum (µA) | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 100 | 400 | 10 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 100 | 400 | 10 | | | | | | | | | | | | | | | | | | | | | | |
| Note: n =30p. V.P.S test conditions : 230deg.Cx75sx2times (V.P.S=Vapor Phase Soldering method) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start on September 10, 2001 | | Executed by R. Kawachino | | | | | | | | | | | | | | | | | | | | | | | |
| End on December 2, 2001 | | Drawn by S. Yoshino | | | | | | | | | | | | | | | | | | | | | | | |
| | | No.OS02D-DESVP051 | | | | | | | | | | | | | | | | | | | | | | | |
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OS-CON DATA SHEET

| | | | |
|--|------------------------------|-------------------------------|--|
| OS-CON™ SVP series | | | |
| Test item Damp heat (Steady state) (After V.P.S test) | Test temperature 60 deg.C | Model 6SVP470M | |
| | Test humidity 90% RH | Lot No. 060202471 | |
| Change in capacitance (120Hz) | | Tangent of loss angle (120Hz) | |
| | | | |
| ESR (100kHz) | | Leakage current (6.3V 60s) | |
| | | | |
| Note: n =20p. V.P.S test conditions : 230deg.Cx75sx2times (V.P.S = Vapor Phase Soldering method) | | | |
| Start on November 7, 2001 | | Executed by R. Kawachino | |
| End on December 20, 2001 | | Drawn by M. Kimura | |
| | | No.OS02D-DHSVP051 | |
| OS Engineering Department, OS-CON Control Department, Saga SANYO Industries Co., Ltd. | | | |

