

TEST DATA OF SUS60505 SUCS60505

Regulated DC Power Supply
Feb 22, 2005

Approved by : Tetsuo Sugimori
Tetsuo Sugimori Design Manager

Prepared by : Yoshikazu Mizuno
Yoshikazu Mizuno Design Engineer

COSEL CO.,LTD.



CONTENTS

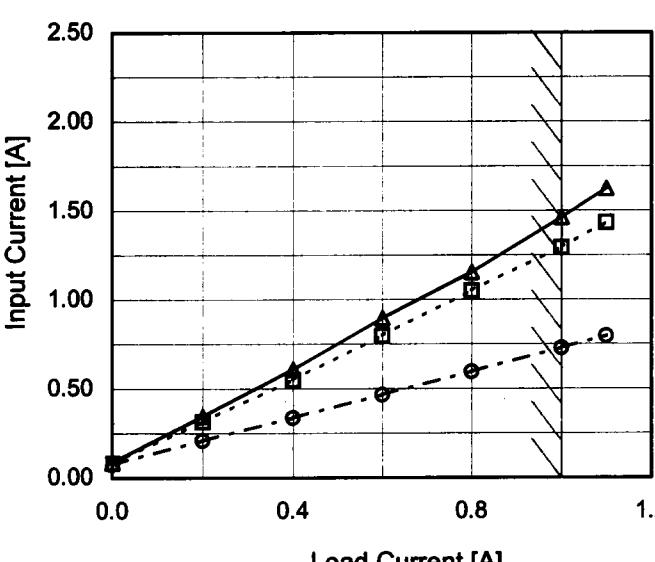
| | |
|-----------------------------------------------------------------|----|
| 1.Input Current (by Input Voltage) | 1 |
| 2.Input Current (by Load Current) | 2 |
| 3.Input Power (by Load Current) | 3 |
| 4.Efficiency (by Input Voltage) | 4 |
| 5.Efficiency (by Load Current) | 5 |
| 6.Line Regulation | 6 |
| 7.Load Regulation | 7 |
| 8.Dynamic Load Response | 8 |
| 9.Ripple Voltage (by Load Current) | 9 |
| 10.Ripple-Noise | 10 |
| 11.Ripple Voltage (by Ambient Temperature) | 11 |
| 12.Ambient Temperature Drift | 12 |
| 13.Output Voltage Accuracy | 13 |
| 14.Time Lapse Drift | 14 |
| 15.Rise and Fall Time | 15 |
| 16.Minimum Input Voltage for Regulated Output Voltage | 16 |
| 17.Overcurrent Protection | 17 |
| 18.Figure of Testing Circuitry | 18 |

(Final Page 18)

COSEL

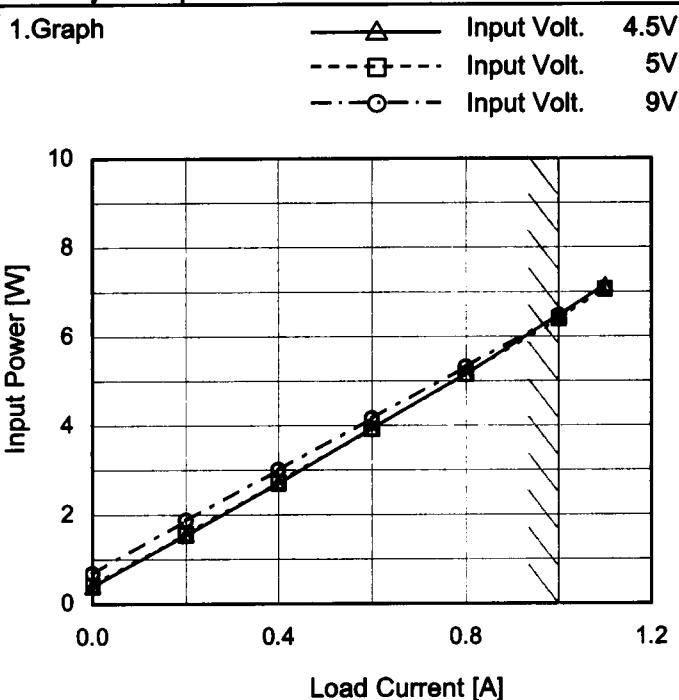
| Model | SUS60505/SUCA60505 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|-------------------|--|--|---------|----------|-----------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|----|---|---|---|----|---|---|---|
| Item | Input Current (by Input Voltage) | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | —△— Load 100% -□--- Load 50% -○--- Load 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> | | <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Load 0%</th> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.000</td><td>0.000</td><td>0.000</td></tr> <tr><td>1.70</td><td>0.001</td><td>0.001</td><td>0.001</td></tr> <tr><td>2.00</td><td>0.001</td><td>0.001</td><td>0.002</td></tr> <tr><td>3.00</td><td>0.003</td><td>0.003</td><td>0.003</td></tr> <tr><td>3.66</td><td>0.100</td><td>0.443</td><td>0.684</td></tr> <tr><td>3.83</td><td>0.096</td><td>0.873</td><td>1.718</td></tr> <tr><td>4.00</td><td>0.096</td><td>0.843</td><td>1.673</td></tr> <tr><td>4.50</td><td>0.089</td><td>0.748</td><td>1.450</td></tr> <tr><td>5.00</td><td>0.083</td><td>0.670</td><td>1.283</td></tr> <tr><td>6.00</td><td>0.078</td><td>0.560</td><td>1.054</td></tr> <tr><td>7.00</td><td>0.075</td><td>0.488</td><td>0.918</td></tr> <tr><td>8.00</td><td>0.075</td><td>0.435</td><td>0.804</td></tr> <tr><td>9.00</td><td>0.077</td><td>0.399</td><td>0.716</td></tr> <tr><td>10.00</td><td>0.078</td><td>0.369</td><td>0.657</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | Input Voltage [V] | Input Current [A] | | | Load 0% | Load 50% | Load 100% | 0.00 | 0.000 | 0.000 | 0.000 | 1.70 | 0.001 | 0.001 | 0.001 | 2.00 | 0.001 | 0.001 | 0.002 | 3.00 | 0.003 | 0.003 | 0.003 | 3.66 | 0.100 | 0.443 | 0.684 | 3.83 | 0.096 | 0.873 | 1.718 | 4.00 | 0.096 | 0.843 | 1.673 | 4.50 | 0.089 | 0.748 | 1.450 | 5.00 | 0.083 | 0.670 | 1.283 | 6.00 | 0.078 | 0.560 | 1.054 | 7.00 | 0.075 | 0.488 | 0.918 | 8.00 | 0.075 | 0.435 | 0.804 | 9.00 | 0.077 | 0.399 | 0.716 | 10.00 | 0.078 | 0.369 | 0.657 | -- | - | - | - | -- | - | - | - |
| Input Voltage [V] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 0% | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.000 | 0.000 | 0.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.70 | 0.001 | 0.001 | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.001 | 0.001 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0.003 | 0.003 | 0.003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.66 | 0.100 | 0.443 | 0.684 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.83 | 0.096 | 0.873 | 1.718 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 0.096 | 0.843 | 1.673 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.50 | 0.089 | 0.748 | 1.450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 0.083 | 0.670 | 1.283 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 0.078 | 0.560 | 1.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.00 | 0.075 | 0.488 | 0.918 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.00 | 0.075 | 0.435 | 0.804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.00 | 0.077 | 0.399 | 0.716 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.00 | 0.078 | 0.369 | 0.657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------------------|-------------------|--|--|--------|------|------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Input Current (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p style="text-align: center;"> △ Input Volt. 4.5V □ Input Volt. 5V ○ Input Volt. 9V </p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>4.5[V]</th> <th>5[V]</th> <th>9[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.087</td><td>0.082</td><td>0.075</td></tr> <tr><td>0.2</td><td>0.346</td><td>0.314</td><td>0.209</td></tr> <tr><td>0.4</td><td>0.610</td><td>0.550</td><td>0.336</td></tr> <tr><td>0.6</td><td>0.897</td><td>0.797</td><td>0.464</td></tr> <tr><td>0.8</td><td>1.154</td><td>1.051</td><td>0.595</td></tr> <tr><td>1.0</td><td>1.461</td><td>1.292</td><td>0.727</td></tr> <tr><td>1.1</td><td>1.623</td><td>1.433</td><td>0.795</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | | | Load Current [A] | Input Current [A] | | | 4.5[V] | 5[V] | 9[V] | 0.0 | 0.087 | 0.082 | 0.075 | 0.2 | 0.346 | 0.314 | 0.209 | 0.4 | 0.610 | 0.550 | 0.336 | 0.6 | 0.897 | 0.797 | 0.464 | 0.8 | 1.154 | 1.051 | 0.595 | 1.0 | 1.461 | 1.292 | 0.727 | 1.1 | 1.623 | 1.433 | 0.795 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4.5[V] | 5[V] | 9[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.087 | 0.082 | 0.075 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 0.346 | 0.314 | 0.209 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 0.610 | 0.550 | 0.336 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 0.897 | 0.797 | 0.464 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 1.154 | 1.051 | 0.595 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 1.461 | 1.292 | 0.727 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 1.623 | 1.433 | 0.795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: | Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|-------------------------------|
| Model | SUS60505/SUCS60505 |
| Item | Input Power (by Load Current) |
| Object | _____ |



Note: Slanted line shows the range of the rated load current.

Temperature 25°C
 Testing Circuitry Figure A

2. Values

| Load Current [A] | Input Power [W] | | |
|------------------|-----------------|------|------|
| | 4.5[V] | 5[V] | 9[V] |
| 0.0 | 0.40 | 0.42 | 0.68 |
| 0.2 | 1.55 | 1.57 | 1.87 |
| 0.4 | 2.71 | 2.73 | 3.01 |
| 0.6 | 3.94 | 3.92 | 4.16 |
| 0.8 | 5.16 | 5.15 | 5.31 |
| 1.0 | 6.49 | 6.40 | 6.48 |
| 1.1 | 7.16 | 7.06 | 7.08 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

COSEL

| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|-------------------|----------------|--|----------|-----------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|----|---|---|
| Item | Efficiency (by Input Voltage) | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line with squares), Load 100% (solid line with triangles)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>4.0</td> <td>76.5</td> <td>77.4</td> </tr> <tr> <td>4.5</td> <td>76.8</td> <td>78.6</td> </tr> <tr> <td>5.0</td> <td>76.5</td> <td>79.1</td> </tr> <tr> <td>6.0</td> <td>75.6</td> <td>79.9</td> </tr> <tr> <td>7.0</td> <td>74.4</td> <td>79.9</td> </tr> <tr> <td>8.0</td> <td>72.6</td> <td>79.2</td> </tr> <tr> <td>9.0</td> <td>70.8</td> <td>78.4</td> </tr> <tr> <td>9.5</td> <td>69.7</td> <td>77.9</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | | | Input Voltage [V] | Efficiency [%] | | Load 50% | Load 100% | 4.0 | 76.5 | 77.4 | 4.5 | 76.8 | 78.6 | 5.0 | 76.5 | 79.1 | 6.0 | 75.6 | 79.9 | 7.0 | 74.4 | 79.9 | 8.0 | 72.6 | 79.2 | 9.0 | 70.8 | 78.4 | 9.5 | 69.7 | 77.9 | -- | - | - |
| Input Voltage [V] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 76.5 | 77.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | 76.8 | 78.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 76.5 | 79.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 75.6 | 79.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 74.4 | 79.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 72.6 | 79.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.0 | 70.8 | 78.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.5 | 69.7 | 77.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

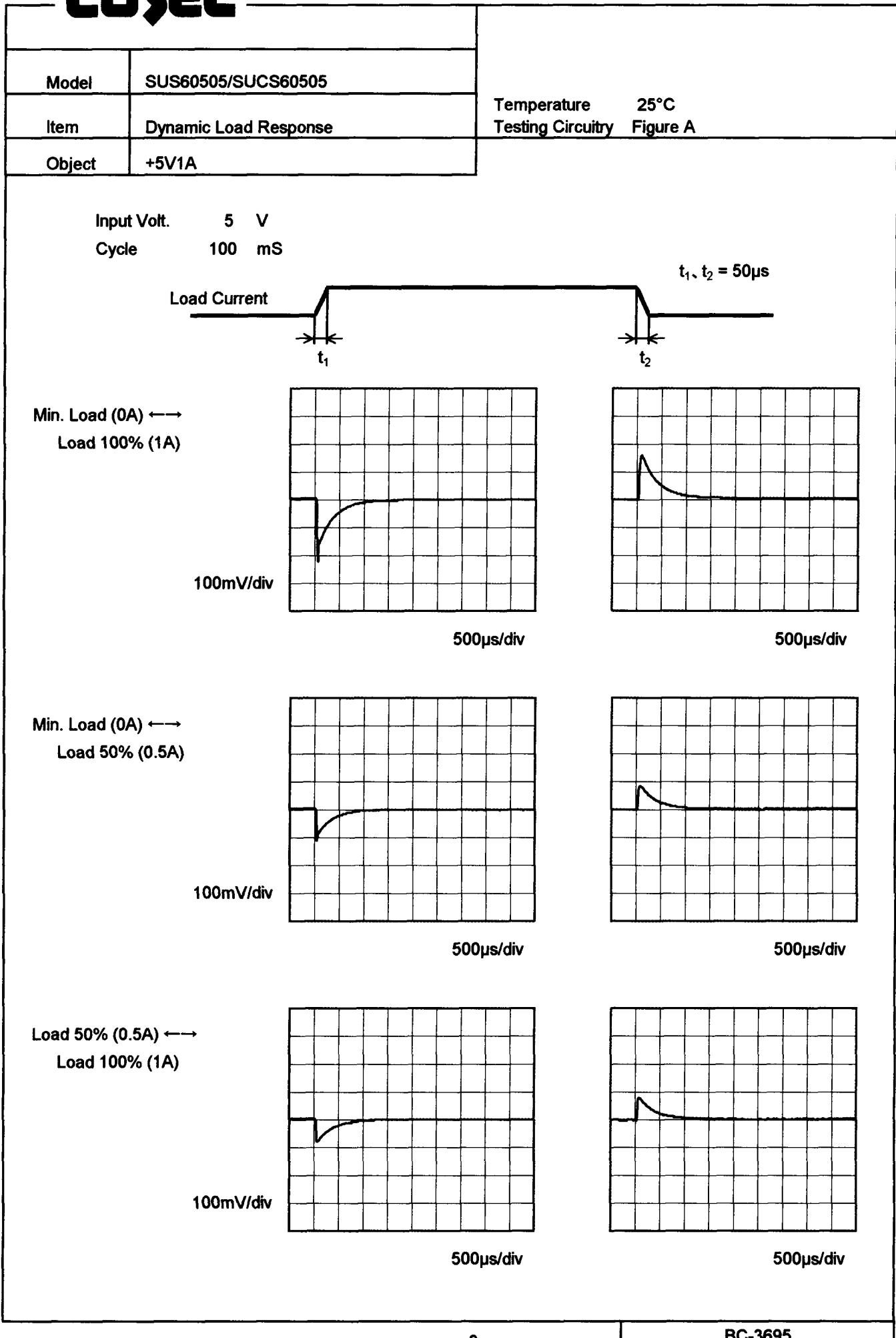
| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|------------------|------------------|----------------|--------|-----|--------------------|------------------|------------------|-----|----|----|---|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Efficiency (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | —△— Input Volt. 4.5V - -□--- Input Volt. 5V - -○--- Input Volt. 9V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The graph plots Efficiency [%] on the y-axis (30 to 90) against Load Current [A] on the x-axis (0.0 to 1.2). Three curves are shown for different input voltages: 4.5V (solid line with triangles), 5V (dashed line with squares), and 9V (dash-dot line with circles). All curves show efficiency increasing with load current. A slanted line is drawn across the graph, starting at approximately (0.3, 65) and ending at (1.0, 80), representing the rated load current range.</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>4.5V [%]</th> <th>5V [%]</th> <th>9V [%]</th> </tr> </thead> <tbody> <tr><td>0.3</td><td>65</td><td>-</td><td>-</td></tr> <tr><td>0.4</td><td>75</td><td>65</td><td>-</td></tr> <tr><td>0.5</td><td>78</td><td>72</td><td>68</td></tr> <tr><td>0.8</td><td>78</td><td>78</td><td>75</td></tr> <tr><td>1.0</td><td>78.1</td><td>79.2</td><td>78.3</td></tr> <tr><td>1.1</td><td>77.9</td><td>79.0</td><td>78.8</td></tr> </tbody> </table> | | | Load Current [A] | 4.5V [%] | 5V [%] | 9V [%] | 0.3 | 65 | - | - | 0.4 | 75 | 65 | - | 0.5 | 78 | 72 | 68 | 0.8 | 78 | 78 | 75 | 1.0 | 78.1 | 79.2 | 78.3 | 1.1 | 77.9 | 79.0 | 78.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Current [A] | 4.5V [%] | 5V [%] | 9V [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.3 | 65 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 75 | 65 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 78 | 72 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 78 | 78 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 78.1 | 79.2 | 78.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 77.9 | 79.0 | 78.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 4.5[V]</th> <th>Input Volt. 5[V]</th> <th>Input Volt. 9[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.2</td><td>65.6</td><td>64.6</td><td>54.1</td></tr> <tr><td>0.4</td><td>74.9</td><td>74.3</td><td>67.3</td></tr> <tr><td>0.6</td><td>77.2</td><td>77.5</td><td>73.1</td></tr> <tr><td>0.8</td><td>78.6</td><td>78.8</td><td>76.3</td></tr> <tr><td>1.0</td><td>78.1</td><td>79.2</td><td>78.3</td></tr> <tr><td>1.1</td><td>77.9</td><td>79.0</td><td>78.8</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | | Load Current [A] | Efficiency [%] | | | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | 0.0 | - | - | - | 0.2 | 65.6 | 64.6 | 54.1 | 0.4 | 74.9 | 74.3 | 67.3 | 0.6 | 77.2 | 77.5 | 73.1 | 0.8 | 78.6 | 78.8 | 76.3 | 1.0 | 78.1 | 79.2 | 78.3 | 1.1 | 77.9 | 79.0 | 78.8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 65.6 | 64.6 | 54.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 74.9 | 74.3 | 67.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 77.2 | 77.5 | 73.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 78.6 | 78.8 | 76.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 78.1 | 79.2 | 78.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 77.9 | 79.0 | 78.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------|-------------------|--------------------|--|----------|-----------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|---|---|---|
| Item | Line Regulation | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend:</p> <ul style="list-style-type: none"> Load 50% (Dashed line) Load 100% (Solid line with triangle) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated input voltage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>4.0</td> <td>5.065</td> <td>5.061</td> </tr> <tr> <td>4.5</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>5.0</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>6.0</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>7.0</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>8.0</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>9.0</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>9.5</td> <td>5.065</td> <td>5.062</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 4.0 | 5.065 | 5.061 | 4.5 | 5.065 | 5.062 | 5.0 | 5.065 | 5.062 | 6.0 | 5.065 | 5.062 | 7.0 | 5.065 | 5.062 | 8.0 | 5.065 | 5.062 | 9.0 | 5.065 | 5.062 | 9.5 | 5.065 | 5.062 | - | - | - |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 5.065 | 5.061 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.0 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.5 | 5.065 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCS60505 | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|------------------|---------------------------|-------------------------|-------------------------|--------------------|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Load Regulation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>—△— Input Volt. 4.5V - - -□- - Input Volt. 5V - - ○- - Input Volt. 9V</p> <table border="1"> <caption>Data points estimated from Graph 1</caption> <thead> <tr> <th>Load Current [A]</th> <th>Output Voltage [V] (4.5V)</th> <th>Output Voltage [V] (5V)</th> <th>Output Voltage [V] (9V)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.067</td><td>5.067</td><td>5.067</td></tr> <tr><td>0.2</td><td>5.067</td><td>5.066</td><td>5.066</td></tr> <tr><td>0.4</td><td>5.066</td><td>5.065</td><td>5.065</td></tr> <tr><td>0.6</td><td>5.065</td><td>5.064</td><td>5.064</td></tr> <tr><td>0.8</td><td>5.063</td><td>5.063</td><td>5.063</td></tr> <tr><td>1.0</td><td>5.062</td><td>5.062</td><td>5.062</td></tr> <tr><td>1.1</td><td>5.060</td><td>5.061</td><td>5.061</td></tr> </tbody> </table> | | | Load Current [A] | Output Voltage [V] (4.5V) | Output Voltage [V] (5V) | Output Voltage [V] (9V) | 0.0 | 5.067 | 5.067 | 5.067 | 0.2 | 5.067 | 5.066 | 5.066 | 0.4 | 5.066 | 5.065 | 5.065 | 0.6 | 5.065 | 5.064 | 5.064 | 0.8 | 5.063 | 5.063 | 5.063 | 1.0 | 5.062 | 5.062 | 5.062 | 1.1 | 5.060 | 5.061 | 5.061 | | | | | | | | | | | | | | | | | | | |
| Load Current [A] | Output Voltage [V] (4.5V) | Output Voltage [V] (5V) | Output Voltage [V] (9V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.067 | 5.067 | 5.067 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 5.067 | 5.066 | 5.066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 5.066 | 5.065 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 5.065 | 5.064 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 5.063 | 5.063 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 5.062 | 5.062 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 5.060 | 5.061 | 5.061 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 4.5[V]</th> <th>Input Volt. 5[V]</th> <th>Input Volt. 9[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.067</td><td>5.067</td><td>5.067</td></tr> <tr><td>0.2</td><td>5.067</td><td>5.066</td><td>5.066</td></tr> <tr><td>0.4</td><td>5.066</td><td>5.065</td><td>5.065</td></tr> <tr><td>0.6</td><td>5.065</td><td>5.064</td><td>5.064</td></tr> <tr><td>0.8</td><td>5.063</td><td>5.063</td><td>5.063</td></tr> <tr><td>1.0</td><td>5.062</td><td>5.062</td><td>5.062</td></tr> <tr><td>1.1</td><td>5.060</td><td>5.061</td><td>5.061</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Load Current [A] | Output Voltage [V] | | | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | 0.0 | 5.067 | 5.067 | 5.067 | 0.2 | 5.067 | 5.066 | 5.066 | 0.4 | 5.066 | 5.065 | 5.065 | 0.6 | 5.065 | 5.064 | 5.064 | 0.8 | 5.063 | 5.063 | 5.063 | 1.0 | 5.062 | 5.062 | 5.062 | 1.1 | 5.060 | 5.061 | 5.061 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.067 | 5.067 | 5.067 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 5.067 | 5.066 | 5.066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 5.066 | 5.065 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 5.065 | 5.064 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 5.063 | 5.063 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 5.062 | 5.062 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 5.060 | 5.061 | 5.061 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: | Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

COSEL

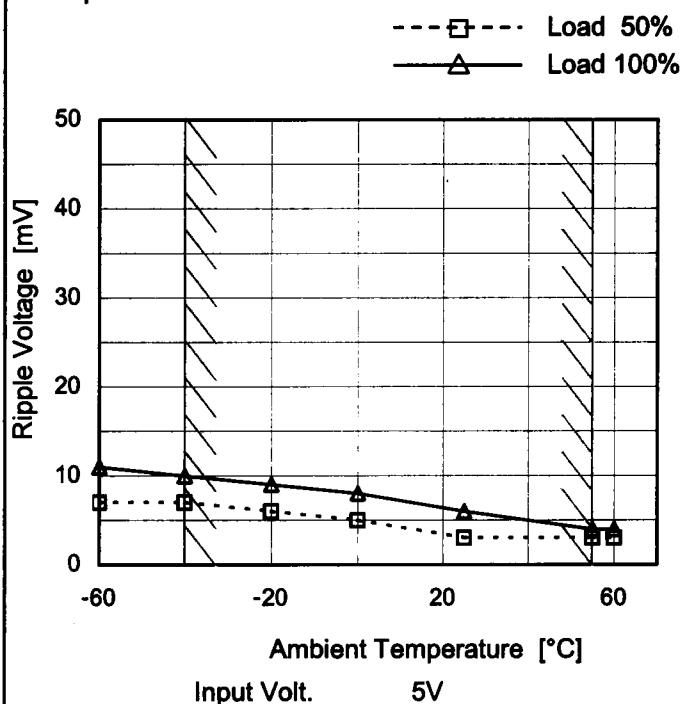
| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|------------------|---------------------|--|---------------------|-------------------|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Ripple Voltage (by Load Current) | Temperature 25°C Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>—△— Input Volt. 4.5V ---○--- Input Volt. 9V</p> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 4.5 [V]</th> <th>Input Volt. 9 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>4</td><td>5</td></tr> <tr><td>0.2</td><td>4</td><td>5</td></tr> <tr><td>0.4</td><td>4</td><td>5</td></tr> <tr><td>0.6</td><td>4</td><td>4</td></tr> <tr><td>0.8</td><td>4</td><td>4</td></tr> <tr><td>1.0</td><td>7</td><td>4</td></tr> <tr><td>1.1</td><td>10</td><td>4</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Load Current [A] | Ripple Voltage [mV] | | Input Volt. 4.5 [V] | Input Volt. 9 [V] | 0.0 | 4 | 5 | 0.2 | 4 | 5 | 0.4 | 4 | 5 | 0.6 | 4 | 4 | 0.8 | 4 | 4 | 1.0 | 7 | 4 | 1.1 | 10 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5 [V] | Input Volt. 9 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 7 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 10 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------|------------------|-------------------|--|---------------------|-------------------|-----|---|---|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Ripple-Noise | Temperature 25°C Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple-Noise [mV]</th> </tr> <tr> <th>Input Volt. 4.5 [V]</th> <th>Input Volt. 9 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>4</td><td>6</td></tr> <tr><td>0.2</td><td>11</td><td>11</td></tr> <tr><td>0.4</td><td>15</td><td>14</td></tr> <tr><td>0.6</td><td>20</td><td>17</td></tr> <tr><td>0.8</td><td>25</td><td>20</td></tr> <tr><td>1.0</td><td>30</td><td>24</td></tr> <tr><td>1.1</td><td>34</td><td>25</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Load Current [A] | Ripple-Noise [mV] | | Input Volt. 4.5 [V] | Input Volt. 9 [V] | 0.0 | 4 | 6 | 0.2 | 11 | 11 | 0.4 | 15 | 14 | 0.6 | 20 | 17 | 0.8 | 25 | 20 | 1.0 | 30 | 24 | 1.1 | 34 | 25 | - | - | - | - | - | - | - | - | - | - | - | - |
| Load Current [A] | Ripple-Noise [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5 [V] | Input Volt. 9 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 11 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 15 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 20 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | 25 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 30 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 34 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fig.Complex Ripple Noise Wave Form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | |
|--------|-----------------------------------|
| Model | SUS60505/SUCS60505 |
| Item | Ripple Voltage (by Ambient Temp.) |
| Object | +5V1A |

1.Graph

Measured by 100 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure B**2.Values**

| Ambient Temperature [°C] | Ripple Voltage [mV] | |
|-----------------------------|---------------------|-----------|
| | Load 50% | Load 100% |
| -60 | 7 | 11 |
| -40 | 7 | 10 |
| -20 | 6 | 9 |
| 0 | 5 | 8 |
| 25 | 3 | 6 |
| 55 | 3 | 4 |
| 60 | 3 | 4 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

COSEL

| <p>Model</p> <p>Item</p> <p>Object</p> | SUS60505/SUCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------------------|--------------------|--|--|-----------------------|---------------------|---------------------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|---|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| | Ambient Temperature Drift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 4.5V Input Volt. 5V Input Volt. 9V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 4.5[V]</th> <th>Input Volt. 5[V]</th> <th>Input Volt. 9[V]</th> </tr> </thead> <tbody> <tr> <td>-60</td><td>5.032</td><td>5.033</td><td>5.034</td></tr> <tr> <td>-40</td><td>5.042</td><td>5.043</td><td>5.044</td></tr> <tr> <td>-20</td><td>5.050</td><td>5.051</td><td>5.052</td></tr> <tr> <td>0</td><td>5.056</td><td>5.057</td><td>5.058</td></tr> <tr> <td>25</td><td>5.061</td><td>5.062</td><td>5.062</td></tr> <tr> <td>55</td><td>5.063</td><td>5.063</td><td>5.063</td></tr> <tr> <td>60</td><td>5.063</td><td>5.063</td><td>5.063</td></tr> <tr> <td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | Ambient Temperature [°C] | Output Voltage [V] | | | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | -60 | 5.032 | 5.033 | 5.034 | -40 | 5.042 | 5.043 | 5.044 | -20 | 5.050 | 5.051 | 5.052 | 0 | 5.056 | 5.057 | 5.058 | 25 | 5.061 | 5.062 | 5.062 | 55 | 5.063 | 5.063 | 5.063 | 60 | 5.063 | 5.063 | 5.063 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Ambient Temperature [°C] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 5.032 | 5.033 | 5.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 5.042 | 5.043 | 5.044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 5.050 | 5.051 | 5.052 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5.056 | 5.057 | 5.058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 5.061 | 5.062 | 5.062 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 5.063 | 5.063 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 5.063 | 5.063 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated ambient temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | |
|--------|-------------------------|----------------------------|
| Model | SUS60505/SUCS60505 | Testing Circuitry Figure A |
| Item | Output Voltage Accuracy | |
| Object | +5V1A | |

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -40 - 55°C

Input Voltage : 4.5 - 9V

Load Current : 0 - 1A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

| Item | Temperature [°C] | Input Voltage[V] | Output | | Output Voltage Accuracy | |
|-----------------|---------------------|---------------------|------------|------------|-------------------------|------------|
| | | | Current[A] | Voltage[V] | Value [mV] | Ration [%] |
| Maximum Voltage | 55 | 9 | 0 | 5.069 | ±14 | ±0.3 |
| Minimum Voltage | -40 | 4.5 | 1 | 5.042 | | |

COSEL

| | |
|--------|---------------------|
| Model | SUS60505/SUCCS60505 |
| Item | Time Lapse Drift |
| Object | +5V1A |

1. Graph

| Time since start [H] | Output Voltage [V] |
|----------------------|--------------------|
| 0.0 | 5.064 |
| 0.5 | 5.062 |
| 1.0 | 5.062 |
| 2.0 | 5.062 |
| 3.0 | 5.062 |
| 4.0 | 5.062 |
| 5.0 | 5.062 |
| 6.0 | 5.062 |
| 7.0 | 5.062 |
| 8.0 | 5.062 |

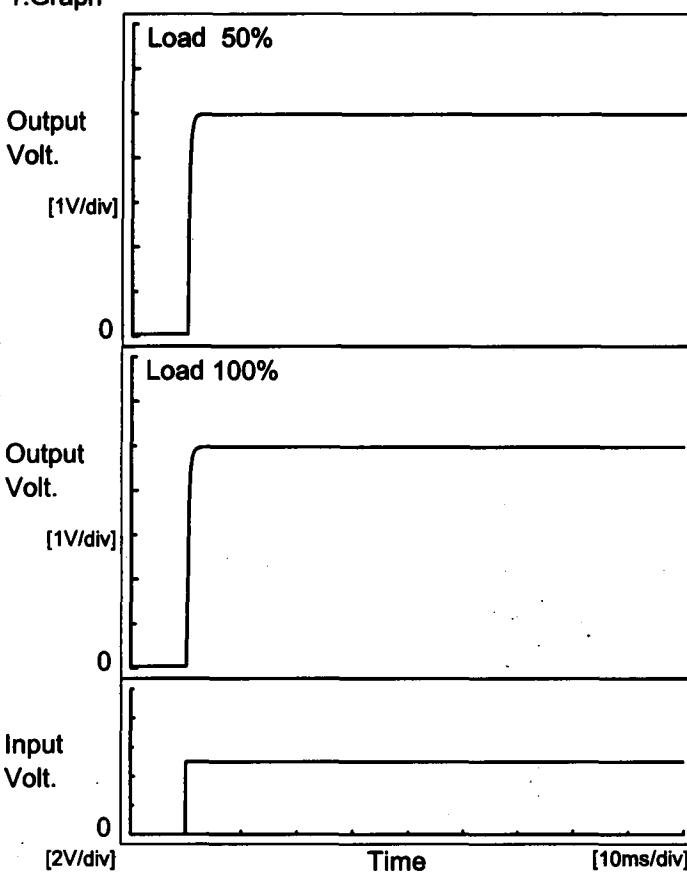
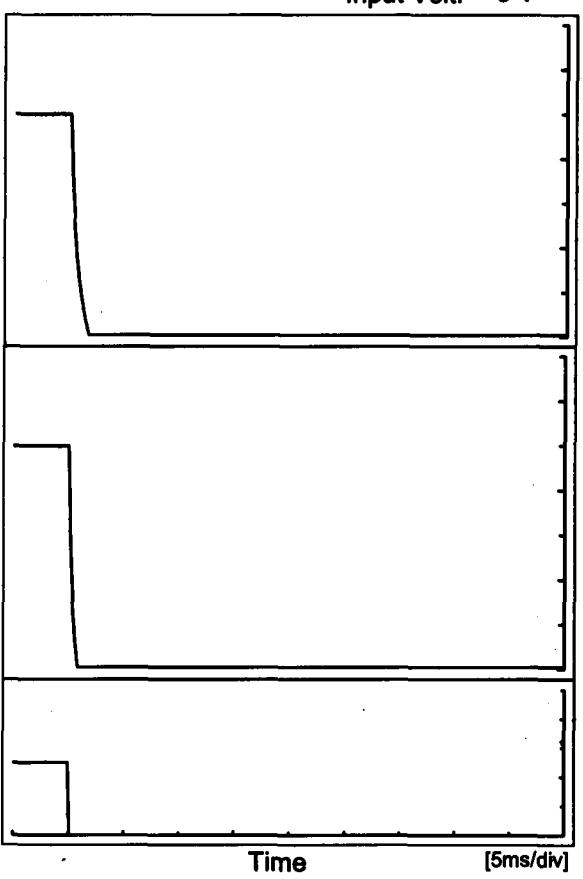
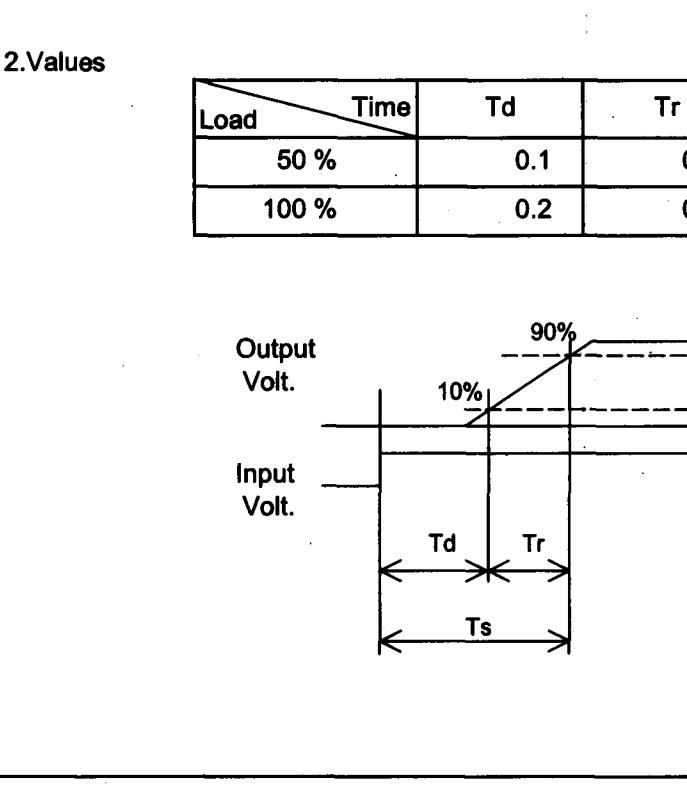
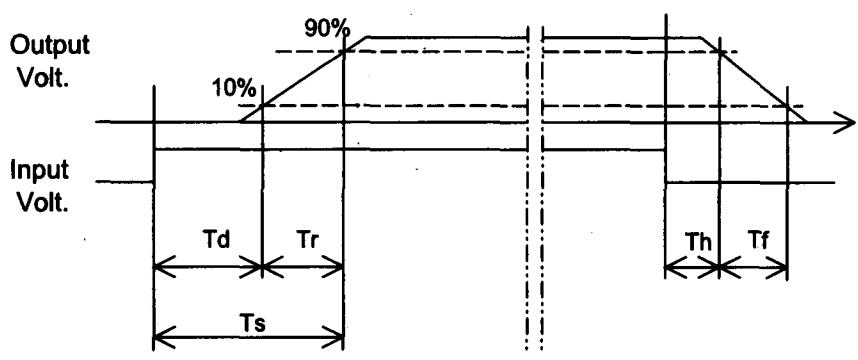
Input Volt. 5V
Load 100%

Temperature 25°C
Testing Circuitry Figure A

2. Values

| Time since start [H] | Output Voltage [V] |
|----------------------|--------------------|
| 0.0 | 5.064 |
| 0.5 | 5.062 |
| 1.0 | 5.062 |
| 2.0 | 5.062 |
| 3.0 | 5.062 |
| 4.0 | 5.062 |
| 5.0 | 5.062 |
| 6.0 | 5.062 |
| 7.0 | 5.062 |
| 8.0 | 5.062 |

COSEL

| Model | SUS60505/SUCS60505 | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|------|-----|-----|----|----|----|------|--|-----|-----|-----|-----|-----|-------|--|-----|-----|-----|-----|-----|--|
| Item | Rise and Fall Time | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Input Volt. 5 V  | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | [ms] | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Load</th> <th>Time</th> <th>Td</th> <th>Tr</th> <th>Ts</th> <th>Th</th> <th>Tf</th> </tr> </thead> <tbody> <tr> <td>50 %</td> <td></td> <td>0.1</td> <td>0.7</td> <td>0.8</td> <td>0.1</td> <td>1.2</td> </tr> <tr> <td>100 %</td> <td></td> <td>0.2</td> <td>0.8</td> <td>1.0</td> <td>0.1</td> <td>0.6</td> </tr> </tbody> </table> | | | Load | Time | Td | Tr | Ts | Th | Tf | 50 % | | 0.1 | 0.7 | 0.8 | 0.1 | 1.2 | 100 % | | 0.2 | 0.8 | 1.0 | 0.1 | 0.6 | |
| Load | Time | Td | Tr | Ts | Th | Tf | | | | | | | | | | | | | | | | | | |
| 50 % | | 0.1 | 0.7 | 0.8 | 0.1 | 1.2 | | | | | | | | | | | | | | | | | | |
| 100 % | | 0.2 | 0.8 | 1.0 | 0.1 | 0.6 | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCCS60505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------|-----------------------------|-------------------|--|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | Minimum Input Voltage for Regulated Output Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Legend:</p> <ul style="list-style-type: none"> Load 50% (Dashed line with open squares) Load 100% (Solid line with solid squares) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>-60</td><td>3.8</td><td>3.9</td> </tr> <tr> <td>-40</td><td>3.7</td><td>3.8</td> </tr> <tr> <td>-20</td><td>3.6</td><td>3.6</td> </tr> <tr> <td>0</td><td>3.4</td><td>3.5</td> </tr> <tr> <td>25</td><td>3.3</td><td>3.4</td> </tr> <tr> <td>55</td><td>3.2</td><td>3.2</td> </tr> <tr> <td>60</td><td>3.2</td><td>3.2</td> </tr> <tr> <td>--</td><td>-</td><td>-</td> </tr> <tr> <td>--</td><td>-</td><td>-</td> </tr> <tr> <td>--</td><td>-</td><td>-</td> </tr> <tr> <td>--</td><td>-</td><td>-</td> </tr> </tbody> </table> | | | Ambient Temperature [°C] | Input Voltage [V] | | Load 50% | Load 100% | -60 | 3.8 | 3.9 | -40 | 3.7 | 3.8 | -20 | 3.6 | 3.6 | 0 | 3.4 | 3.5 | 25 | 3.3 | 3.4 | 55 | 3.2 | 3.2 | 60 | 3.2 | 3.2 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Ambient Temperature [°C] | Input Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 3.8 | 3.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 3.7 | 3.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 3.6 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3.4 | 3.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 3.3 | 3.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 3.2 | 3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 3.2 | 3.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | SUS60505/SUCS60505 | Temperature Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|--|--|--------------------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Item | Overcurrent Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V1A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>Input Volt. 4.5V Input Volt. 5V Input Volt. 9V</p> <p>The graph plots Output Voltage [V] on the y-axis (0 to 7) against Load Current [A] on the x-axis (0.0 to 2.0). Three curves are shown for different input voltages: 4.5V (top), 5V (middle), and 9V (bottom). All curves show a sharp drop in output voltage as load current increases beyond approximately 1.2A. A slanted line is drawn across the graph, intersecting the 5V curve at approximately 1.2A and the 9V curve at approximately 1.4A, indicating the range of the rated load current.</p> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 4.5[V]</th> <th>Input Volt. 5[V]</th> <th>Input Volt. 9[V]</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>4.75</td><td>1.36</td><td>1.42</td><td>1.38</td></tr> <tr><td>4.50</td><td>1.38</td><td>1.45</td><td>1.39</td></tr> <tr><td>4.00</td><td>1.44</td><td>1.50</td><td>1.41</td></tr> <tr><td>3.50</td><td>1.49</td><td>1.54</td><td>1.42</td></tr> <tr><td>3.00</td><td>1.56</td><td>1.60</td><td>1.45</td></tr> <tr><td>2.50</td><td>1.60</td><td>1.64</td><td>1.47</td></tr> <tr><td>2.00</td><td>1.64</td><td>1.67</td><td>1.48</td></tr> <tr><td>1.50</td><td>1.65</td><td>1.67</td><td>1.48</td></tr> <tr><td>1.00</td><td>1.62</td><td>1.63</td><td>1.45</td></tr> <tr><td>0.50</td><td>1.49</td><td>1.52</td><td>1.37</td></tr> <tr><td>0.00</td><td>1.17</td><td>1.19</td><td>1.14</td></tr> </tbody> </table> | Output Voltage [V] | Load Current [A] | | | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | 5.00 | 1.00 | 1.00 | 1.00 | 4.75 | 1.36 | 1.42 | 1.38 | 4.50 | 1.38 | 1.45 | 1.39 | 4.00 | 1.44 | 1.50 | 1.41 | 3.50 | 1.49 | 1.54 | 1.42 | 3.00 | 1.56 | 1.60 | 1.45 | 2.50 | 1.60 | 1.64 | 1.47 | 2.00 | 1.64 | 1.67 | 1.48 | 1.50 | 1.65 | 1.67 | 1.48 | 1.00 | 1.62 | 1.63 | 1.45 | 0.50 | 1.49 | 1.52 | 1.37 | 0.00 | 1.17 | 1.19 | 1.14 |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 4.5[V] | Input Volt. 5[V] | Input Volt. 9[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 1.00 | 1.00 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.75 | 1.36 | 1.42 | 1.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.50 | 1.38 | 1.45 | 1.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 1.44 | 1.50 | 1.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.50 | 1.49 | 1.54 | 1.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 1.56 | 1.60 | 1.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | 1.60 | 1.64 | 1.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 1.64 | 1.67 | 1.48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | 1.65 | 1.67 | 1.48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 1.62 | 1.63 | 1.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | 1.49 | 1.52 | 1.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 1.17 | 1.19 | 1.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

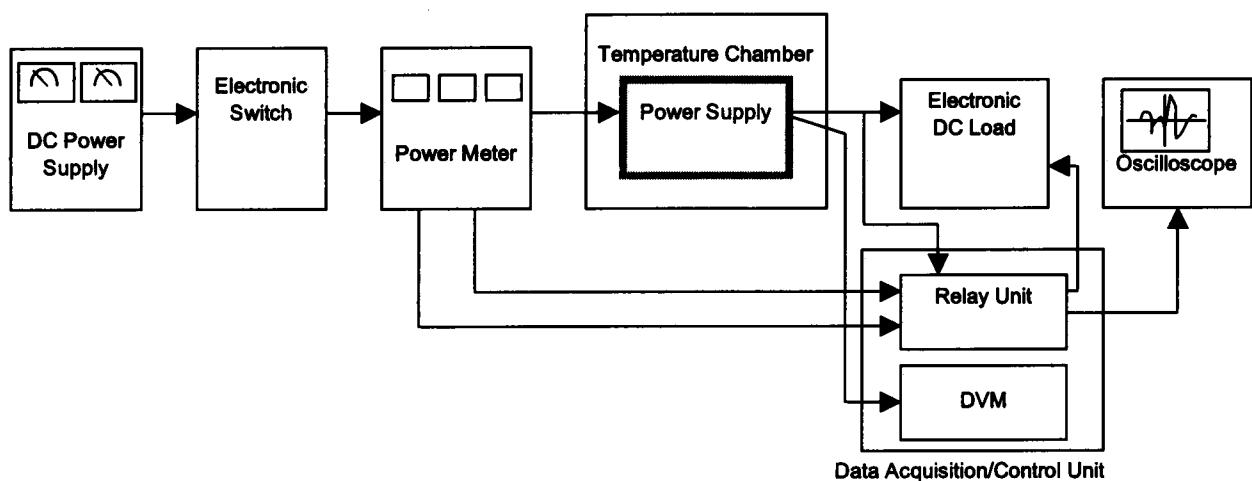


Figure A

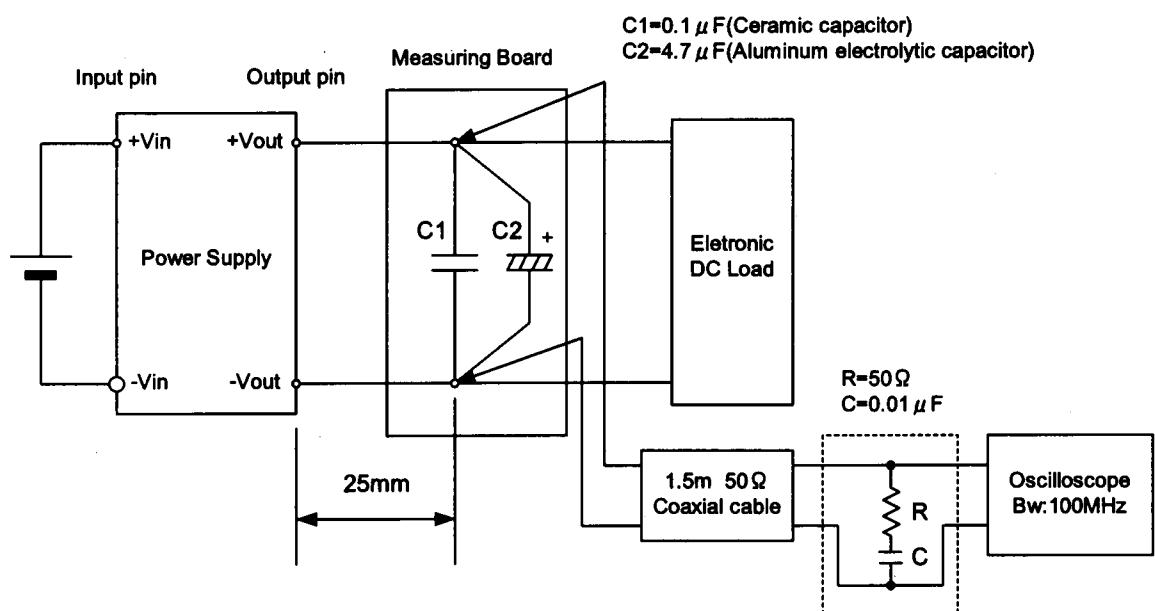


Figure B (Ripple and Ripple noise Characteristic)