



# TEST DATA OF ZTS30505

(5.0V INPUT)

Regulated DC Power Supply

Date : Mar. 5. 1998

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**COSEL CO., LTD.**

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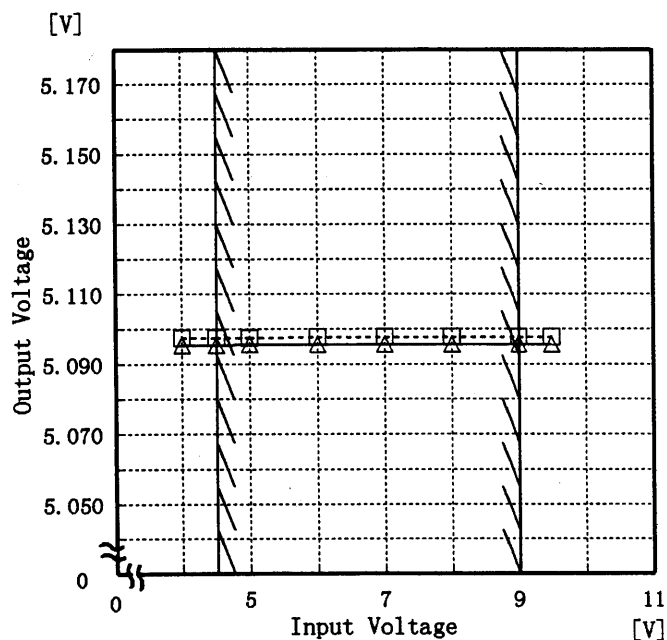
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Model	ZTS30505
Item	Line Regulation 静的入力変動
Object	+5V0.6A

Temperature 25°C  
Testing Circuitry Figure A

1. Graph
- Load 50%  
-----△----- Load 100%



Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
4.0	5.097	5.095
4.5	5.097	5.096
5.0	5.098	5.096
6.0	5.098	5.096
7.0	5.098	5.096
8.0	5.098	5.096
9.0	5.098	5.096
9.5	5.098	5.096
—	—	—
—	—	—
—	—	—
—	—	—

**COSEL**

Model	ZTS30505	Temperature	25℃
Item	Efficiency 効率	Testing Circuitry	Figure A
Object			

1. Graph

-----□----- Load 50%

-----△----- Load 100%

Efficiency [%]

80

72

64

56

48

0

0

5

7

9

11

Input Voltage [V]

Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
4.0	66.7	67.1
4.5	66.1	68.7
5.0	65.3	69.1
6.0	63.2	69.1
7.0	61.0	68.4
8.0	58.4	66.8
9.0	55.6	65.3
9.5	54.0	64.7
—	—	—
—	—	—
—	—	—
—	—	—

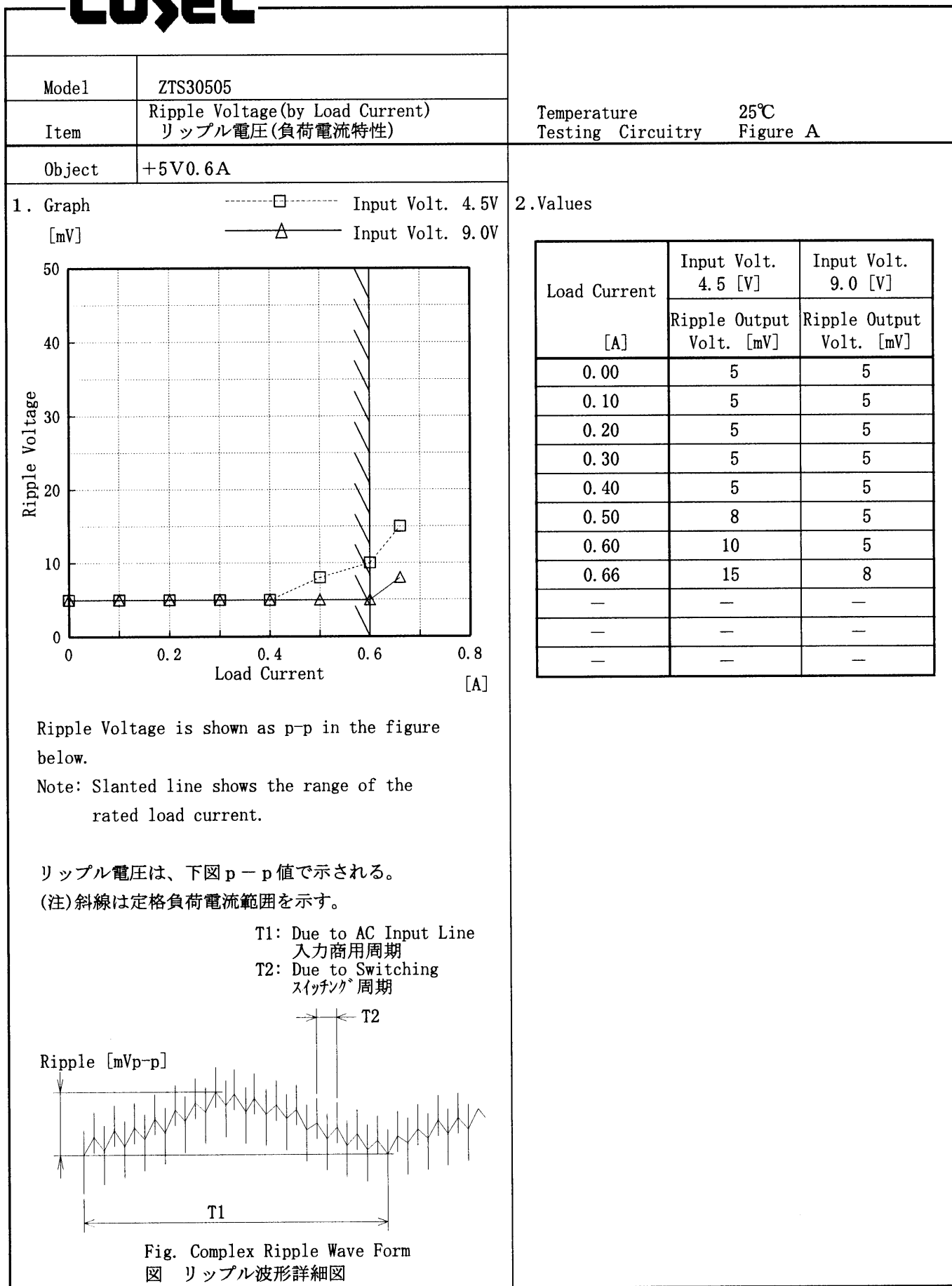
Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

**COSEL**

Model ZTS30505		Temperature 25°C																																																
Item	Load Regulation 静的負荷変動	Testing Circuitry	Figure A																																															
Object	+5V0.6A																																																	
1. Graph		2. Values																																																
<div> <div>—△— Input Volt. 4.5V</div> <div>- -□- - Input Volt. 5.0V</div> <div>—○— Input Volt. 9.0V</div> </div> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>		<table> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 4.5[V]</th><th>Input Volt. 5.0[V]</th><th>Input Volt. 9.0[V]</th></tr> <tr> <th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr> <tr><td>0.00</td><td>5.099</td><td>5.099</td><td>5.100</td></tr> <tr><td>0.10</td><td>5.099</td><td>5.099</td><td>5.099</td></tr> <tr><td>0.20</td><td>5.098</td><td>5.098</td><td>5.098</td></tr> <tr><td>0.30</td><td>5.098</td><td>5.098</td><td>5.098</td></tr> <tr><td>0.40</td><td>5.097</td><td>5.097</td><td>5.097</td></tr> <tr><td>0.50</td><td>5.096</td><td>5.096</td><td>5.096</td></tr> <tr><td>0.60</td><td>5.096</td><td>5.096</td><td>5.096</td></tr> <tr><td>0.66</td><td>5.096</td><td>5.096</td><td>5.095</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>		Load Current [A]	Input Volt. 4.5[V]	Input Volt. 5.0[V]	Input Volt. 9.0[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.00	5.099	5.099	5.100	0.10	5.099	5.099	5.099	0.20	5.098	5.098	5.098	0.30	5.098	5.098	5.098	0.40	5.097	5.097	5.097	0.50	5.096	5.096	5.096	0.60	5.096	5.096	5.096	0.66	5.096	5.096	5.095	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 4.5[V]	Input Volt. 5.0[V]	Input Volt. 9.0[V]																																															
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# COSEL



# COSEL

Model		ZTS30505		Temperature		25℃																																													
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																													
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<div><div><div>-----□-----</div><div>Input Volt. 4.5V</div></div><div><div>-----△-----</div><div>Input Volt. 9.0V</div></div></div> <div><div><div>80</div><div>60</div><div>40</div><div>20</div><div>0</div></div><div><div>Ripple-Noise</div><div>[mV]</div></div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div><div>0.8</div></div><div><div>Load Current</div><div>[A]</div></div></div>				<table><tr><th rowspan="2">Load current</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><th>4.5 [V]</th><th>9.0 [V]</th></tr><tr><th>[A]</th><th>Ripple-Noise</th><th>Ripple-Noise</th></tr><tr><th></th><th>[mV]</th><th>[mV]</th></tr><tr><td>0.00</td><td>10</td><td>10</td></tr><tr><td>0.10</td><td>10</td><td>10</td></tr><tr><td>0.20</td><td>10</td><td>10</td></tr><tr><td>0.30</td><td>10</td><td>10</td></tr><tr><td>0.40</td><td>15</td><td>15</td></tr><tr><td>0.50</td><td>15</td><td>15</td></tr><tr><td>0.60</td><td>20</td><td>15</td></tr><tr><td>0.66</td><td>20</td><td>15</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></table>				Load current	Input Volt.	Input Volt.	4.5 [V]	9.0 [V]	[A]	Ripple-Noise	Ripple-Noise		[mV]	[mV]	0.00	10	10	0.10	10	10	0.20	10	10	0.30	10	10	0.40	15	15	0.50	15	15	0.60	20	15	0.66	20	15	—	—	—	—	—	—	—	—	—
Load current	Input Volt.	Input Volt.																																																	
	4.5 [V]	9.0 [V]																																																	
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<p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップルノイズは、下図 p - p 値で示される。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> <div><div><div>T1: Due to AC Input Line</div><div>入力商用周期</div></div><div><div>T2: Due to Switching</div><div>スイッチング周期</div></div></div> <div><div><div>T2</div><div>Ripple-Noise</div><div>[mVp-p]</div></div><div><div>T1</div></div></div>																																																			
<p>Fig. Complex Ripple Wave Form</p> <p>図 リップル波形詳細図</p>																																																			

**COSEL**

Model		ZTS30505	Temperature25℃ Testing CircuitryFigure A
Item		Overcurrent Protection 過電流保護	
Object		+5V0.6A	

1. Graph

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———

————

Input Volt. 4.5V

Input Volt. 5.0V

Input Volt. 9.0V

[V]

8

6

4

2

0

0

0.2

0.4

0.6

0.8

1

Output Voltage

Load Current

[V]

[A]

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

(注)斜線は定格負荷電流範囲を示す。

2. Values

| Output Voltage [V] | Input Volt. 4.5[V] | Input Volt. 5.0[V] | Input Volt. 9.0[V] |
|--------------------|--------------------|--------------------|--------------------|
|                    | Load Curr-ent [A]  | Load Curr-ent [A]  | Load Curr-ent [A]  |
| 5.00               | 0.83               | 0.92               | 0.93               |
| 4.75               | 0.84               | 0.92               | 0.93               |
| 4.50               | 0.85               | 0.93               | 0.92               |
| 4.00               | 0.86               | 0.93               | 0.90               |
| 3.50               | 0.86               | 0.92               | 0.88               |
| 3.00               | 0.86               | 0.90               | 0.85               |
| 2.50               | 0.84               | 0.88               | 0.81               |
| 2.00               | 0.81               | 0.84               | 0.77               |
| 1.50               | 0.77               | 0.79               | 0.72               |
| 1.00               | 0.72               | 0.72               | 0.67               |
| 0.50               | 0.65               | 0.64               | 0.62               |
| 0.00               | 0.54               | 0.55               | 0.63               |



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|        |                                 |                   |          |
|--------|---------------------------------|-------------------|----------|
| Model  | ZTS30505                        | Temperature       | 25°C     |
| Item   | Dynamic Load Responce<br>動的負荷変動 | Testing Circuitry | Figure A |
| Object | +5V0.6A                         |                   |          |

Input Volt. 5.0 V

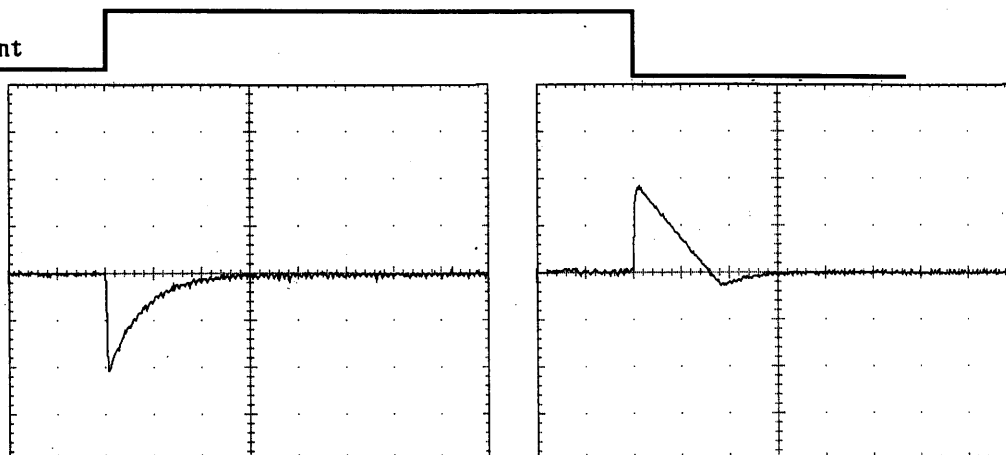
Cycle 100 mS

Load Current

Min. Load ←→

Load 100 %

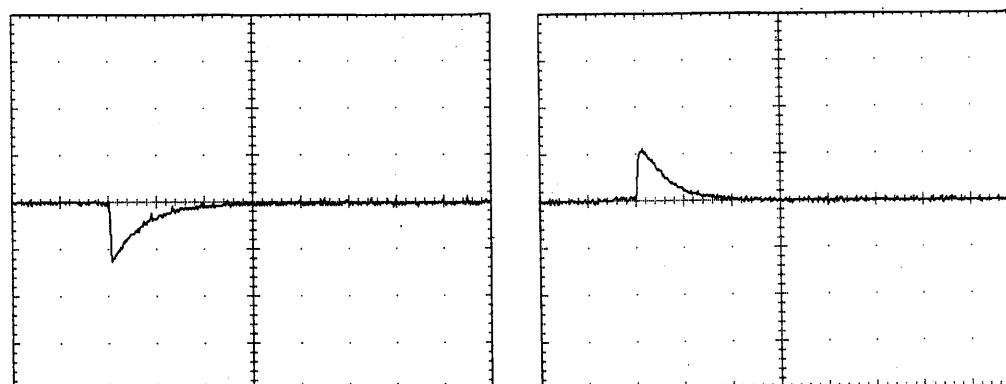
100 mV/div



Min. Load ←→

Load 50 %

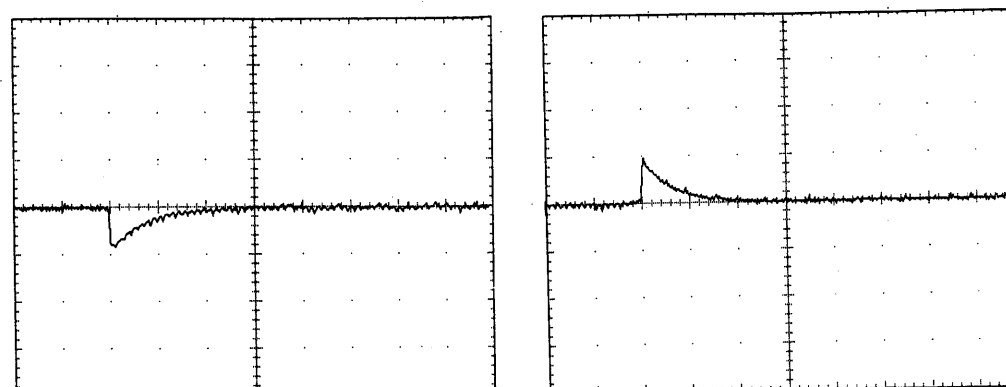
100 mV/div



Load 50%←→

Load 100 %

100 mV/div



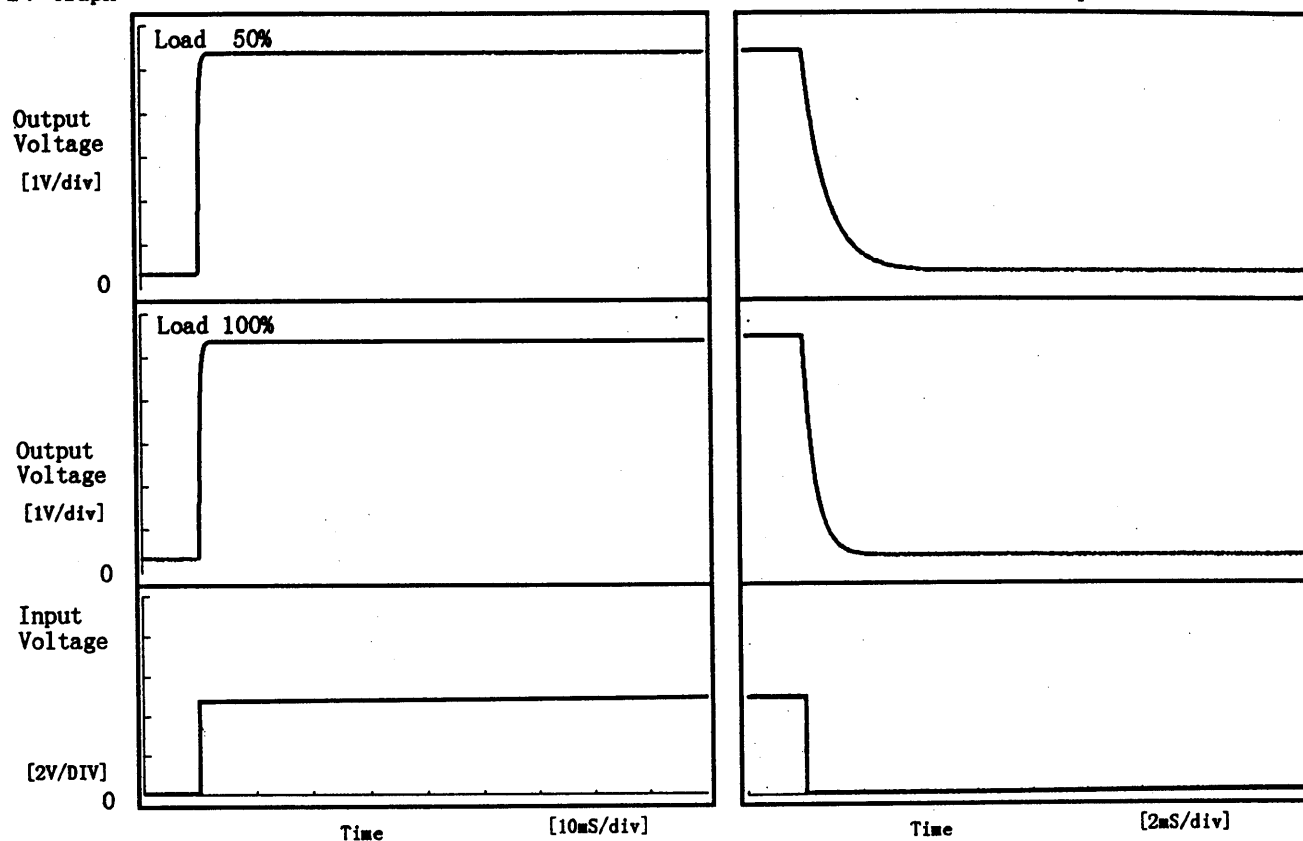
0.5 mS/div

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|        |                              |                   |          |
|--------|------------------------------|-------------------|----------|
| Model  | ZTS30505                     | Temperature       | 25°C     |
| Item   | Rise and Fall Time 立上り、立下り時間 | Testing Circuitry | Figure A |
| Object | +5V0.6A                      |                   |          |

## 1. Graph

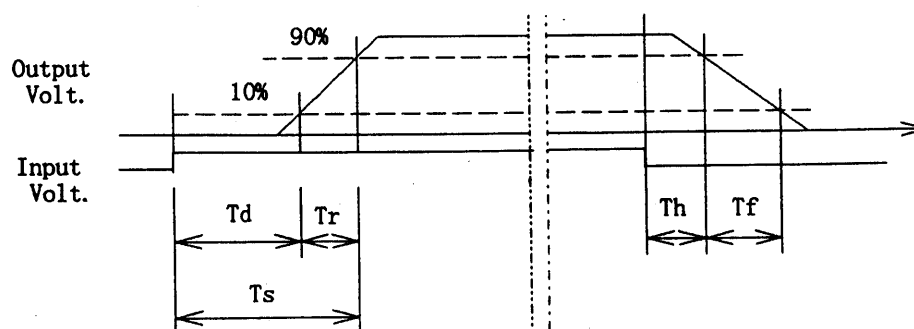
Input Volt. 4.5 V



## 2. Values

[ms]

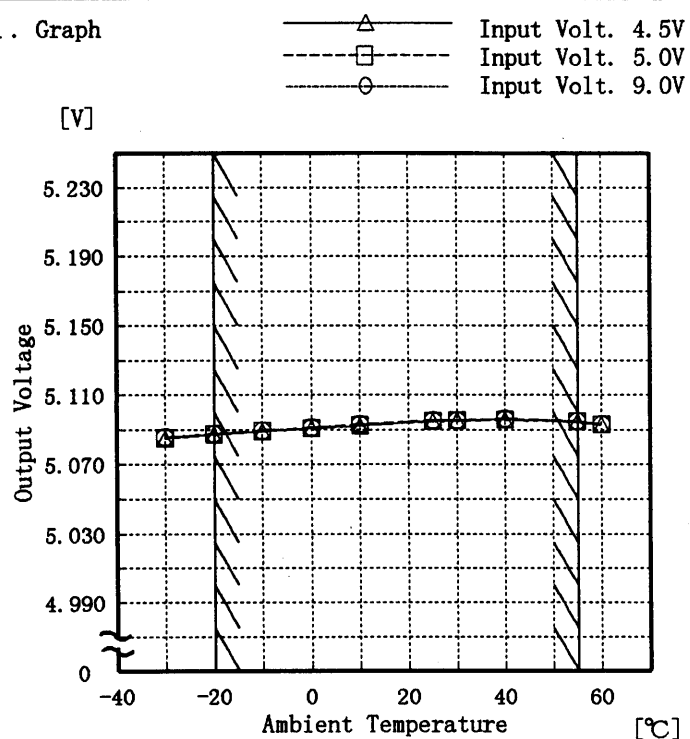
| Load \ Time | T d  | T r  | T s  | T h  | T f  |
|-------------|------|------|------|------|------|
| 50 %        | 0.05 | 0.55 | 0.60 | 0.14 | 1.96 |
| 100 %       | 0.10 | 0.55 | 0.65 | 0.06 | 0.98 |



**COSEL**

|        |                                     |
|--------|-------------------------------------|
| Model  | ZTS30505                            |
| Item   | Ambient Temperature Drift<br>周囲温度変動 |
| Object | +5V0.6A                             |

## 1. Graph



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

(注) 斜線は定格周囲温度範囲を示す。

## Testing Circuitry Figure A

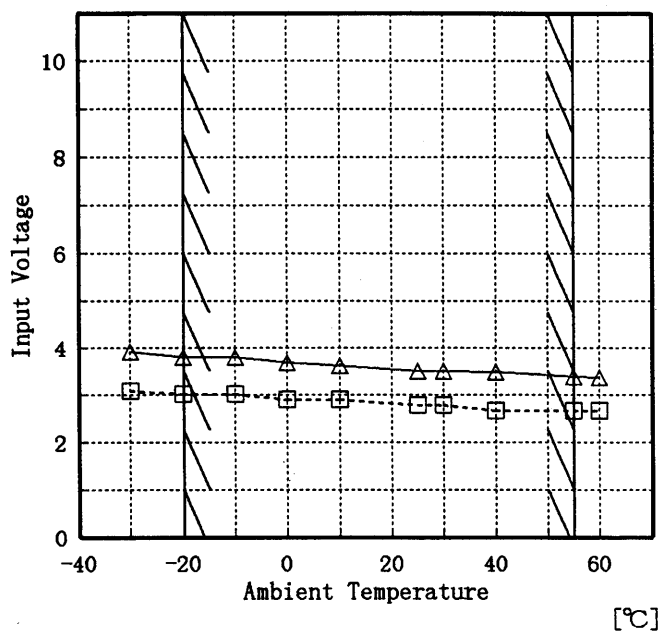
## 2. Values

| Temperature<br>[°C] | Input Volt.<br>4.5[V] | Input Volt.<br>5.0[V] | Input Volt.<br>9.0[V] |
|---------------------|-----------------------|-----------------------|-----------------------|
|                     | Output<br>Volt. [V]   | Output<br>Volt. [V]   | Output<br>Volt. [V]   |
| -30                 | 5.085                 | 5.085                 | 5.086                 |
| -20                 | 5.087                 | 5.088                 | 5.088                 |
| -10                 | 5.089                 | 5.089                 | 5.090                 |
| 0                   | 5.091                 | 5.091                 | 5.091                 |
| 10                  | 5.092                 | 5.093                 | 5.093                 |
| 25                  | 5.095                 | 5.095                 | 5.095                 |
| 30                  | 5.095                 | 5.095                 | 5.096                 |
| 40                  | 5.096                 | 5.096                 | 5.096                 |
| 55                  | 5.095                 | 5.095                 | 5.095                 |
| 60                  | 5.093                 | 5.093                 | 5.093                 |
| —                   | —                     | —                     | —                     |

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|        |                                                                    |
|--------|--------------------------------------------------------------------|
| Model  | ZTS30505                                                           |
| Item   | Minimum Input Voltage for Regulated Output Voltage<br>最低レギュレーション電圧 |
| Object | +5V0.6A                                                            |

1. Graph
- [V]
- Load 50%
- △----- Load 100%



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

(注) 斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

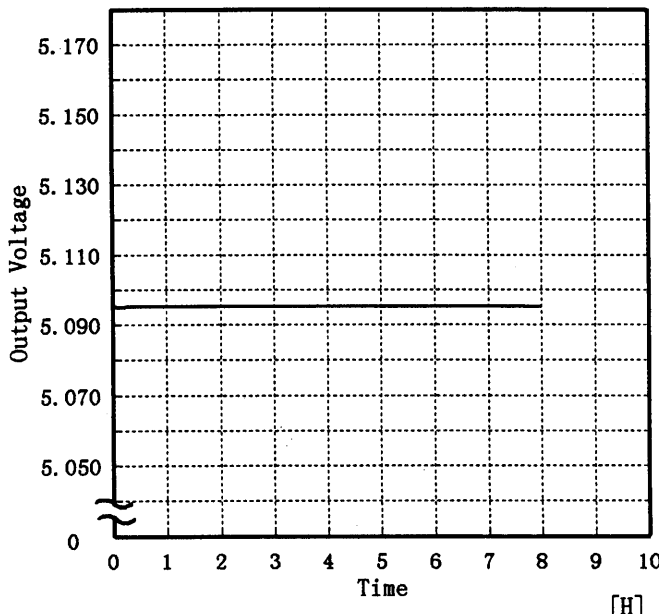
2. Values

| Ambient Temp.<br>[°C] | Load 50%<br>Input Volt.<br>[V] | Load 100%<br>Input Volt.<br>[V] |
|-----------------------|--------------------------------|---------------------------------|
| -30                   | 3.1                            | 3.9                             |
| -20                   | 3.0                            | 3.8                             |
| -10                   | 3.0                            | 3.8                             |
| 0                     | 2.9                            | 3.7                             |
| 10                    | 2.9                            | 3.6                             |
| 25                    | 2.8                            | 3.5                             |
| 30                    | 2.8                            | 3.5                             |
| 40                    | 2.7                            | 3.5                             |
| 55                    | 2.7                            | 3.4                             |
| 60                    | 2.7                            | 3.4                             |
| —                     | —                              | —                               |

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| Model ZTS30505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      | Testing Circuitry Figure A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------|---------------------------------------|-----|---|----|-----|---|----|-----|---|----|---|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|---|----|---|---|---|
| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ripple Voltage (by Ambient Temp.)<br>リップル電圧 (周囲温度特性) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| Object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | +5V0.6A                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 1. Graph <div>             -----□----- Load 50%<br/>             ————△——— Load 100%           </div> <div>             [mV]<br/>             40<br/>             30<br/>             20<br/>             10<br/>             0<br/>             Ripple Voltage<br/>             -40 -20 0 20 40 60<br/>             Ambient Temperature [°C]           </div> <div>             Input Volt. 4.5 V<br/>             Note: Slanted line shows the range of the rated ambient temperature.<br/>             (注) 斜線は定格周囲温度範囲を示す。           </div> |                                                      | 2. Values <table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Load 50%<br/>Ripple Output Volt. [mV]</th><th>Load 100%<br/>Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>-30</td><td>5</td><td>15</td></tr> <tr><td>-20</td><td>5</td><td>15</td></tr> <tr><td>-10</td><td>5</td><td>15</td></tr> <tr><td>0</td><td>5</td><td>15</td></tr> <tr><td>10</td><td>5</td><td>15</td></tr> <tr><td>25</td><td>5</td><td>15</td></tr> <tr><td>30</td><td>5</td><td>10</td></tr> <tr><td>40</td><td>5</td><td>10</td></tr> <tr><td>55</td><td>5</td><td>10</td></tr> <tr><td>60</td><td>5</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table> | Ambient Temp. [°C] | Load 50%<br>Ripple Output Volt. [mV] | Load 100%<br>Ripple Output Volt. [mV] | -30 | 5 | 15 | -20 | 5 | 15 | -10 | 5 | 15 | 0 | 5 | 15 | 10 | 5 | 15 | 25 | 5 | 15 | 30 | 5 | 10 | 40 | 5 | 10 | 55 | 5 | 10 | 60 | 5 | 10 | — | — | — |
| Ambient Temp. [°C]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Load 50%<br>Ripple Output Volt. [mV]                 | Load 100%<br>Ripple Output Volt. [mV]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| -30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| -20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| -10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | —                                                    | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                                      |                                       |     |   |    |     |   |    |     |   |    |   |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |   |   |   |

**COSEL**

| COSEL                                                                                                                                                       |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Model                                                                                                                                                       | ZTS30505                |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| Item                                                                                                                                                        | Time Lapse Drift 経時ドリフト | Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25 ℃     |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| Object                                                                                                                                                      | +5V0.6A                 | Testing Circuitry                                                                                                                                                                                                                                                                                                                                                                                                                              | Figure A |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 1. Graph                                                                                                                                                    |                         | 2.Values                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| <div>[V]</div> <div></div> <div>Input Volt. 5V</div> <div>Load 100%</div> |                         | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.096</td></tr><tr><td>0.5</td><td>5.095</td></tr><tr><td>1.0</td><td>5.095</td></tr><tr><td>2.0</td><td>5.095</td></tr><tr><td>3.0</td><td>5.095</td></tr><tr><td>4.0</td><td>5.095</td></tr><tr><td>5.0</td><td>5.095</td></tr><tr><td>6.0</td><td>5.095</td></tr><tr><td>7.0</td><td>5.095</td></tr><tr><td>8.0</td><td>5.095</td></tr></table> |          | Time since start [H] | Output Voltage [V] | 0.0 | 5.096 | 0.5 | 5.095 | 1.0 | 5.095 | 2.0 | 5.095 | 3.0 | 5.095 | 4.0 | 5.095 | 5.0 | 5.095 | 6.0 | 5.095 | 7.0 | 5.095 | 8.0 | 5.095 |
| Time since start [H]                                                                                                                                        | Output Voltage [V]      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 0.0                                                                                                                                                         | 5.096                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 0.5                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 1.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 2.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 3.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 4.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 5.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 6.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 7.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| 8.0                                                                                                                                                         | 5.095                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                      |                    |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |

**COSEL**

|        |  |                               |                            |
|--------|--|-------------------------------|----------------------------|
| Model  |  | ZTS30505                      | Testing Circuitry Figure A |
| Item   |  | Output Voltage Accuracy 定電圧精度 |                            |
| Object |  | +5V0.6A                       |                            |

## 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 : -20~55 °C

Input Voltage : 4.5~9.0 V

Load Current : 0.0~0.6 A

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

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

## 定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 : -20~55 °C

入力電圧 : 4.5~9.0 V

負荷電流 : 0.0~0.6 A

\* 定電圧精度(変動値) =  $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

\* 定電圧精度(変動率) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

| Item            | Temperature [°C] | Input Voltage [V] | Output Current [A] | Output Voltage [V] | Output Voltage Accuracy [mV] | Output Voltage Accuracy (Ration) [%] |
|-----------------|------------------|-------------------|--------------------|--------------------|------------------------------|--------------------------------------|
| Maximum Voltage | 25               | 9.0               | 0.0                | 5.100              | ±7                           | ±0.2                                 |
| Minimum Voltage | -20              | 4.5               | 0.6                | 5.087              |                              |                                      |





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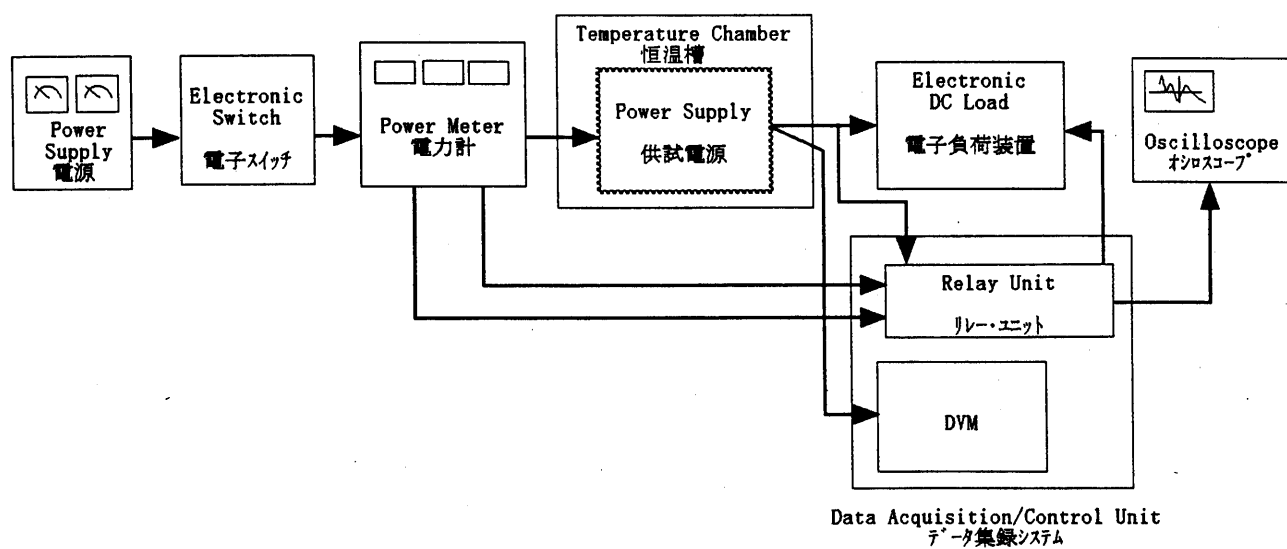


Figure A