

TEST DATA OF SUTS32415

Regulated DC Power Supply
February 20, 2009

Approved by : Kazunari Asano
Kazunari Asano Design Manager

Prepared by : Sho Saito
Sho Saito Design Engineer

COSEL CO.,LTD.

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Model	SUTS32415																																																																																	
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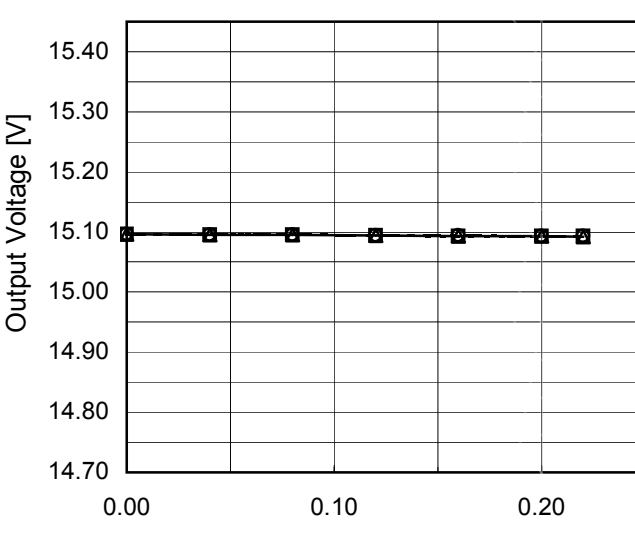
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Object	+15V0.2A	

Input Volt. 24 V
Cycle 100 mS

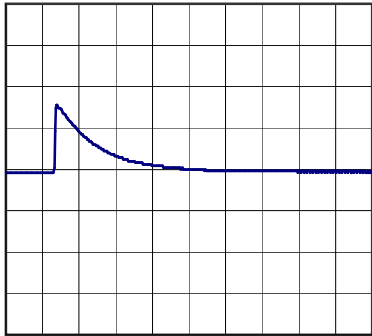


Min. Load (0A) \longleftrightarrow
Load 100% (0.2A)

200mV/div



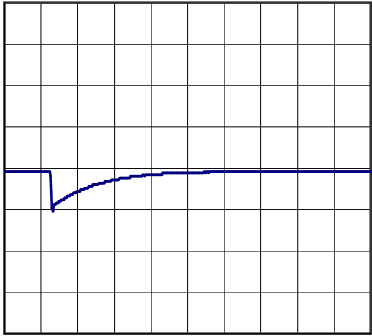
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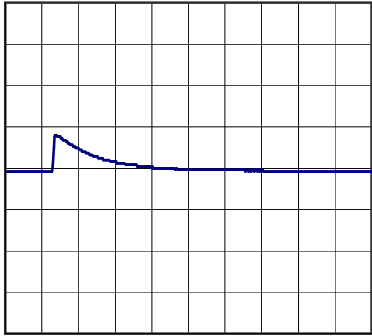
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Load 50% (0.1A)

200mV/div



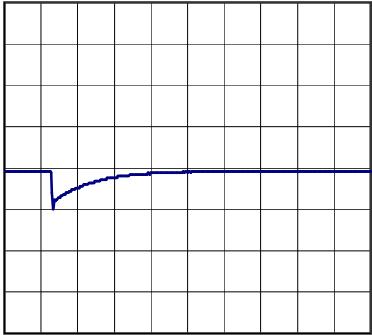
1ms/div



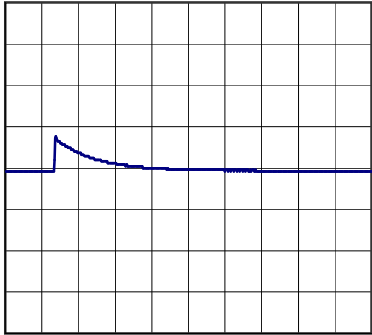
1ms/div

Load 50% (0.1A) \longleftrightarrow
Load 100% (0.2A)

200mV/div



1ms/div



1ms/div

Model	SUTS32415																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
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Model	SUTS32415	
Item	Output Voltage Accuracy	
Object	+15V0.2A	
		Testing Circuitry Figure A

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 : 18 - 36V

Load Current : 0 - 0.2A

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

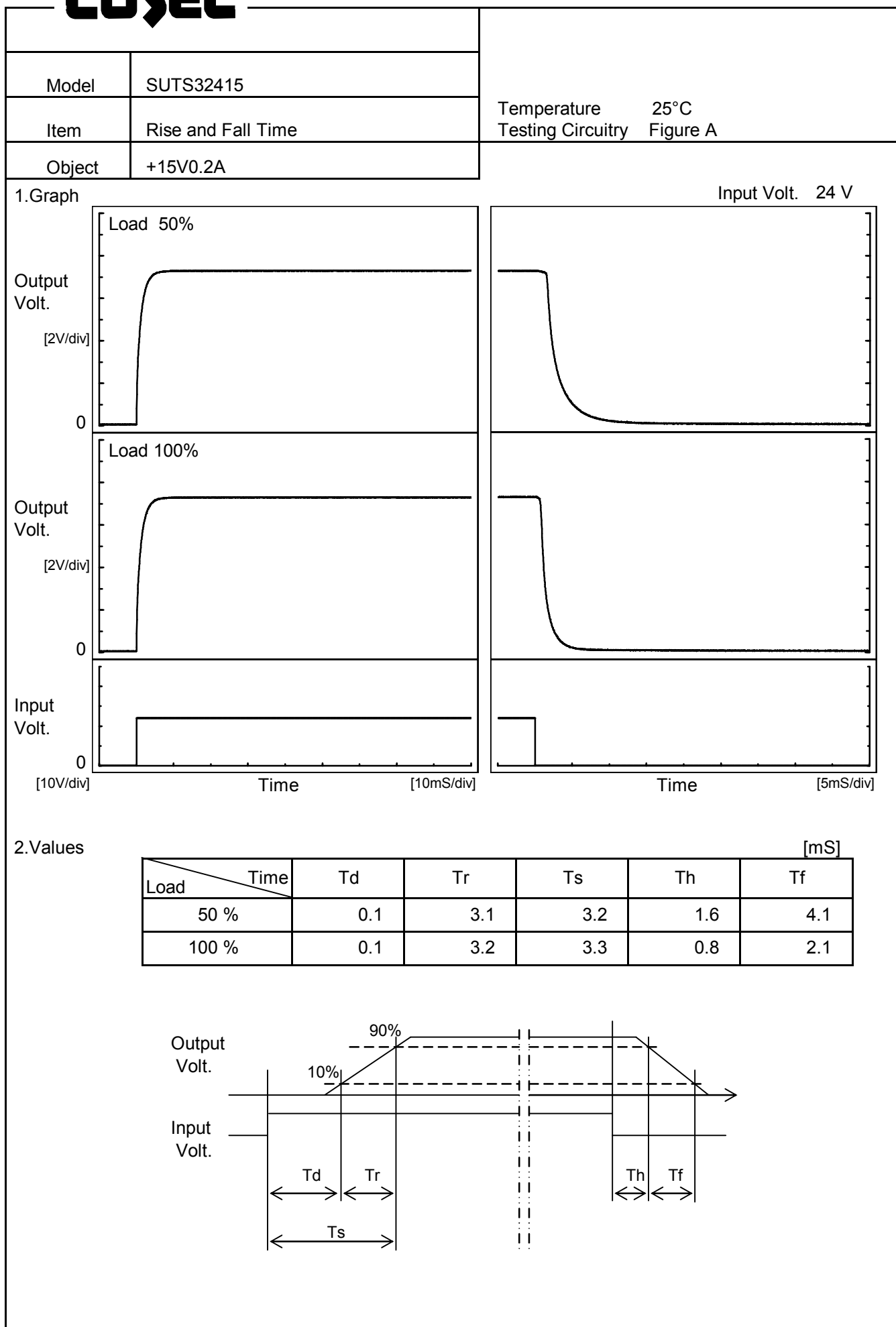
* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	55	36	0	15.100	±32	±0.2
Minimum Voltage	-40	18	0.2	15.037		



Model	SUTS32415																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+15V0.2A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 24V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.087</td></tr><tr><td>0.5</td><td>15.094</td></tr><tr><td>1.0</td><td>15.094</td></tr><tr><td>2.0</td><td>15.094</td></tr><tr><td>3.0</td><td>15.094</td></tr><tr><td>4.0</td><td>15.094</td></tr><tr><td>5.0</td><td>15.094</td></tr><tr><td>6.0</td><td>15.094</td></tr><tr><td>7.0</td><td>15.094</td></tr><tr><td>8.0</td><td>15.094</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.087	0.5	15.094	1.0	15.094	2.0	15.094	3.0	15.094	4.0	15.094	5.0	15.094	6.0	15.094	7.0	15.094	8.0	15.094
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Model

SUTS32415

Item

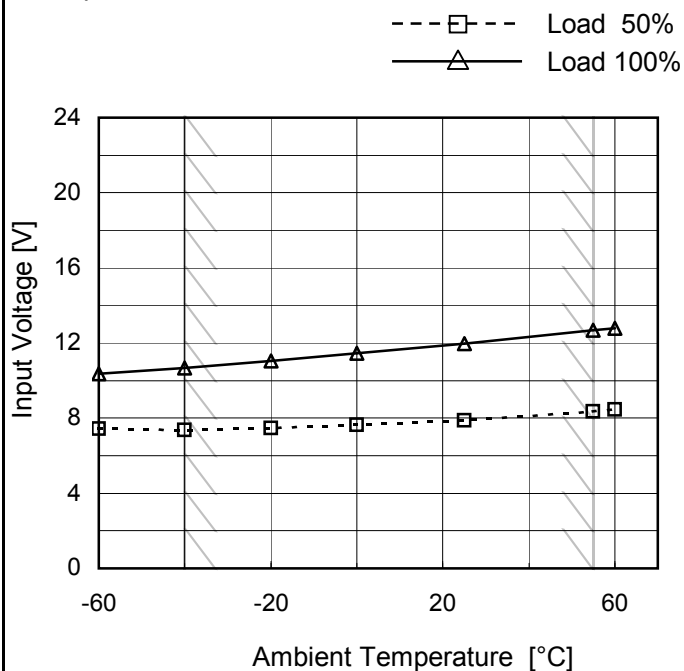
Minimum Input Voltage
for Regulated Output Voltage

Object

+15V0.2A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	7.5	10.4
-40	7.4	10.7
-20	7.5	11.1
0	7.7	11.5
25	7.9	12.0
55	8.4	12.7
60	8.5	12.8
--	-	-
--	-	-
--	-	-
--	-	-

Model	SUTS32415																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V0.2A	Testing Circuitry	Figure A																																																							
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Figure A

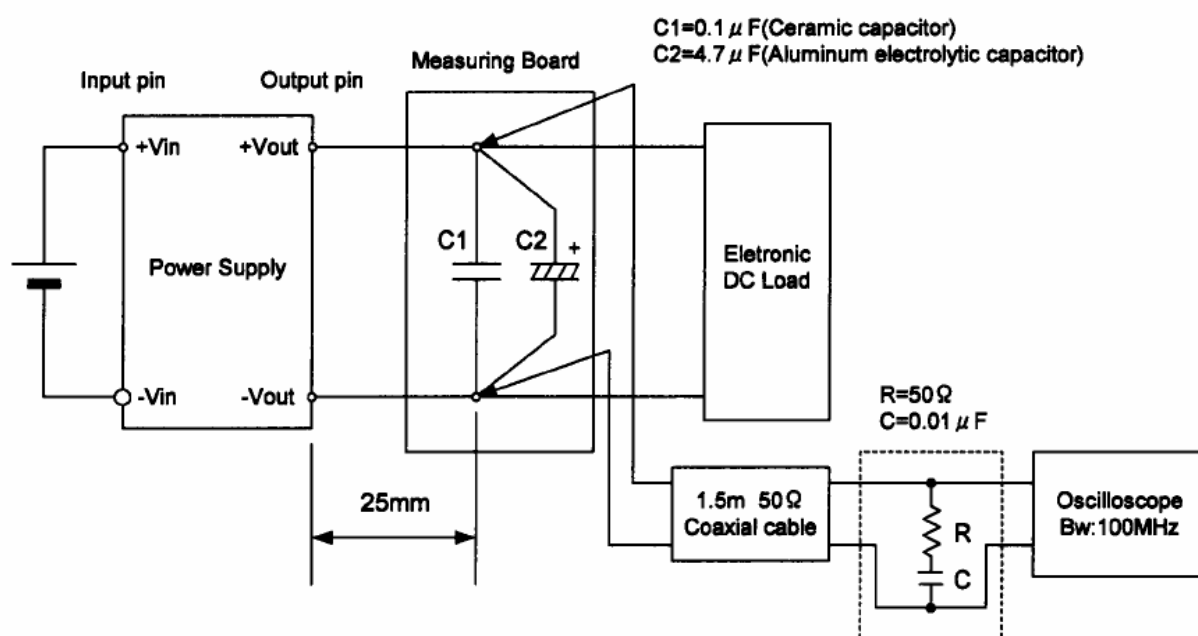


Figure B (Ripple and Ripple noise Characteristic)