



**TEST REPORT  
FOR  
IEC 61000-4-5 (SURGE IMMUNITY)**

**Report No.: 13-09-MAS-097**

Client:	<b>JD Auspice Co., Ltd</b>
Product:	<b>Surge Protection Device</b>
Model:	<b>RL-MTMV-40-385V</b>
Comment Issues:	<b>RL-MTMV-40-275V; RL-MTMV-&amp;&amp;-XXXX RL-MV-&amp;&amp;-XXXX</b>
Manufacturer/supplier:	<b>JD Auspice Co., Ltd</b>
Date test item received:	2013/09/16
Date test campaign completed:	2013/09/24
Date of issue	2013/09/24

**The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.**

*Total number of pages of this test report: 4 pages.*

Test Engineer   Kuang Chi Yu	Checked By   Kevin Lin
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Laboratory Introduction: Electronics Testing Center, Taiwan is recognized, filed and mutual recognition arrangement as following:

- ① ISO9001: TÜV Product Service
- ② ISO/IEC 17025: BSMI, TAF, NCC, NVLAP, CCIBLAC, UL, Compliance
- ③ Filing: FCC, Industry Canada, VCCI
- ④ MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through NCC
- ⑤ FCC Registration Number: 90588, 91094, 91095

## SURGE IMMUNITY TEST DATA

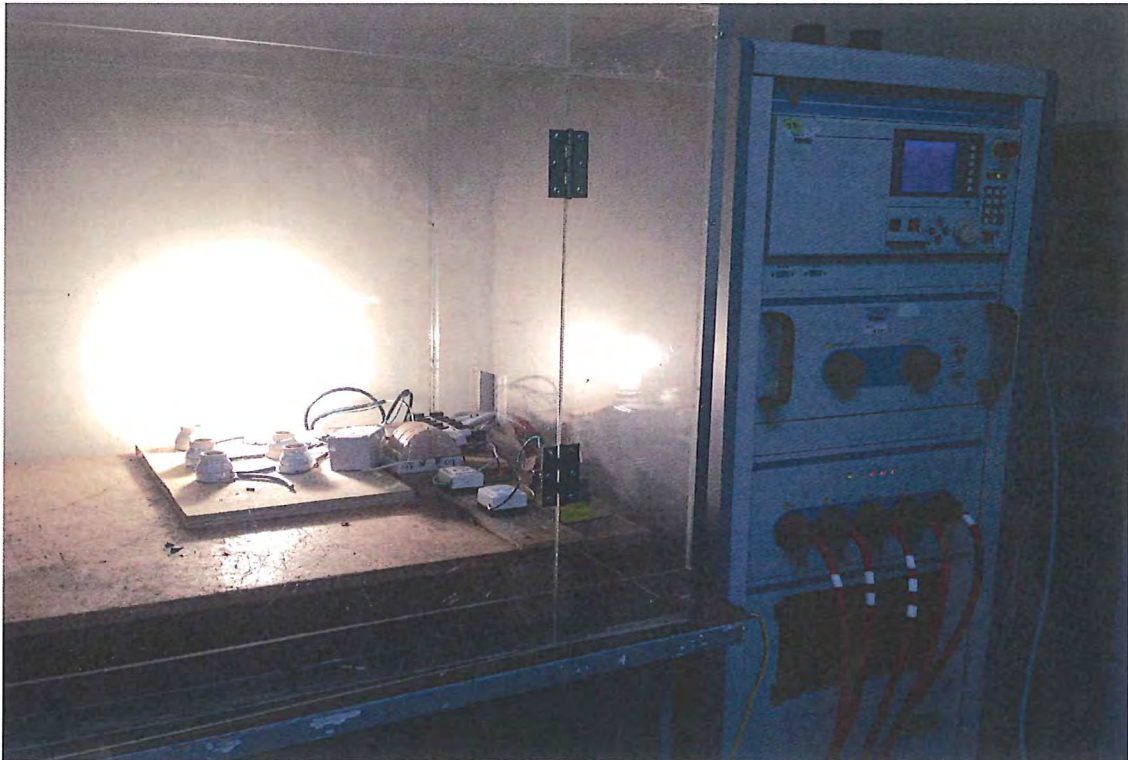
Test Date : Sep. 18, 2013

Test Specification	EN 61000-4-5		
Test Equipment	Calibration Date	Recommended Recal. Date	
Lightning Surge Simulatom \ Noiseken \ LSS-15AX	Feb. 28, 2013	Feb. 27, 2014	
Climatic Condition	Ambient Temperature: <u>21</u> °C    Relative Humidity: <u>63</u> %RH		
	Atmospheric Pressure: <u>998</u> mbar		
Power Supply System	AC Power: <u>230</u> Vac <u>50</u> Hz		
Operating Conditions of The Device	Operation		

Waveform: 1.2/50 $\mu$ s(8/20 $\mu$ s)		Repetition rate: <u>60</u> sec		Times: <u>5</u> times/each condition			
\Voltage \Mode \Polarity \Result			\Phase <b>0°</b>	<b>90°</b>	<b>180°</b>	<b>270°</b>	
6.0 kV	L - N	+	A	A	A	A	
		-	A	A	A	A	
6.0 kV	L-PE	+	A	A	A	A	
		-	A	A	A	A	
	N-PE	+	A	A	A	A	
		-	A	A	A	A	

Result:	<input checked="" type="checkbox"/> Complied <input type="checkbox"/> Does not comply	
Criterion Required:	<u>B</u>	Criterion Met: <u>A</u>

Note: "A" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

**SURGE IMMUNITY TEST SETUP PHOTO**

## ANNEX A: DIFFERENCE INFORMATIONS OF SERIES MODEL

### DIFFERENCE INFORMATIONS OF SERIES MODEL

1. Test Model (Main Model): RL-MTMV-40-275, RL-MTMV-40-385\_\_\_\_\_
2. Test Model (Series Model): RL-MTMV-~~&&~~-XXXX; RL-MV-~~&&~~-XXXX:  
MV=MOV,MTMV=MTMOV,~~&&~~=Imax=20KA,40KA; XXXX=UC,175V,275V,320V,385V
3. The Model without test (Series Model): \_\_\_\_\_

#### The Difference Information:

Model No.	Main Model:	Series Model:	Series Model:	Series Model:
Difference Item	RL-MTMV-40-275V	RL-MTMV-40-385V	RL-MTMV- <del>&amp;&amp;</del> -XXXX	RL-MV- <del>&amp;&amp;</del> -XX XX
PCB Layout and The Circuit Diagram	As picture	○	○	○
Components	Modular thermally protected Metal Oxide Varistor	○	○	Metal Oxide Varistor
Material	plastic	○	○	○
Function	Surge protector	○	○	○
Shape & Color	Rectangular shape, grey	○	○	○
Other	275V	385V	Different Voltage	Different Voltage

Notes: (1) "O" means the item is same with Main model.  
(2) "X" means the item is different with main model. And please explain it.

- Remark: 1. The multiple listing recognized without test basis is according to information supplied by manufacturer.
2. The manufacturer or supplier's quality system shall ensure that the tested model or apparatus is representative of the series-produced apparatus concerned.

### Manufacturer / Supplier

Company Name : JD Auspice Co., Ltd

Signature : Dick Msu

Name : Dick Msu Date : 2013 10/14