

# CERTIFICATE



## of Conformity Low Voltage Directive 2006/95/EC

Registration No.: AN 50307744 0001

Report No.: 15081541 001

Holder: CITEL  
2 rue Troyon  
92316 Sèvres CEDEX  
France

Product: Surge Protector  
SPD module (built-in)

Identification: Type Designation: MLPC1-230L-V MLPC1-230L-R  
MLPC1-277L-V MLPC1-277L-R  
MLPC1-230L-V/50 MLPC1-230L-R/50  
MLPC1-277L-V/50 MLPC1-277L-R/50  
Serial No. : Engineering sample  
Remark: Issued in conjunction with TÜV Rheinland license  
R 50307743 0001.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body



Date 24.06.2015

A handwritten signature in black ink, appearing to read 'Jie Zhang'.  
Jie Zhang

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with.



# Zertifikat Certificate



Zertifikat Nr. Certificate No.  
R 50307743

Blatt Page  
0001

Ihr Zeichen Client Reference  
E. L.

Unser Zeichen Our Reference  
01-KSH- 15081541 001

Ausstellungsdatum  
24.06.2015

Date of Issue  
(day/mo/yr)

Genehmigungsinhaber License Holder  
CITEL  
2 rue Troyon  
92316 Sèvres CEDEX  
France

Fertigungsstätte Manufacturing Plant  
SHANGHAI CITEL ELECTRONICS  
CO., LTD.  
499, Kangyi Road,  
Kangqiao Industrial Zone, Pudong  
Shanghai 201315  
P.R. China

## Prüfzeichen Test Mark



Geprüft nach Tested acc. to  
EN 61643-11:2012

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

Surge Protector Surge Protective Device (SPD)

Type Designation: 1) MLPC1-230L-V MLPC1-230L-R  
MLPC1-230L-V/50 MLPC1-230L-R/50  
2) MLPC1-277L-V MLPC1-277L-R  
MLPC1-277L-V/50 MLPC1-277L-R/50

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Trade Mark : (CITEL)  
Max. Continuous Operating Voltage (Uc) : AC 320V  
Nominal Discharge Current (In) : 5.0kA  
Max. Discharge Current (Imax) : 10kA  
SPD Type : Type 2 or 3  
Voltage Protective Level (Up) : 1) 1,5/1,5kV  
2) 1,8/1,5kV  
Protection Degree : IP20  
Location Category : Indoor and Built in

Remark:

- 1) The models listed above also comply with IEC 61643-11:2011
- 2) The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg  
Tel.: (+49/221) 8 06 - 13 71 e-mail: cert-validity@de.tuv.com  
Fax: (+49/221) 8 06 - 39 35 http://www.tuv.com/safety



Jie Zhang



SHANGHAI CITEL ELECTRONICS CO., LTD.  
Eco Liu, Product Manager  
-  
499, Kangyi Road,  
Kang Qiao Industrial Zone, Pudong  
Shanghai 201315  
P.R. China

Date : 02.06.2015  
Our ref. : KSH 01  
Your ref.: E.L.

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : SPD module (built-in)  
Model Designation : See Certificate  
Certificate No. : AN 50307744 0001  
Report No. : 15081541 001

Dear Eco Liu,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

  
Jie Zhang

CC: SHANGHAI CITEL ELECTRONICS

Enclosure

证书的详细资料请登陆[www.tuvdotcom.com](http://www.tuvdotcom.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Certificate No. R50307743 0001 Our Reference 01-KSH-15081541 001 Appendix No. 1

**Constructional Data Form (CDF) for Surge Protective Device (SPD)**

Page 1 of 4

License holder : Shanghai Citel Electronics Co., Ltd.  
 Address : 499, Kangyi Road, Kang Qiao Industrial Zone, Pudong, Shanghai 201315, P.R. China  
 Factory : Shanghai Citel Electronics Co., Ltd.  
 Address : 499, Kangyi Road, Kang Qiao Industrial Zone, Pudong, Shanghai 201315, P.R. China  
 Type of Appliance : Surge Protective Device (SPD)  
 Type Designation : MLPC1-230L-V; MLPC1-230L-R; MLPC1-277L-V; MLPC1-277L-R;  
 MLPC1-230L-V/50; MLPC1-230L-R/50 MLPC1-277L-V/50; MLPC1-277L-R/50  
 Rated Supply Voltage : 230~277Vac 230~277Vac  
 Maximum Continuous Operating Voltage (U<sub>c</sub>): 320Vac  
 Protection Class : For Class I appliance  
 Protection Degree : IP20  
 Supply connection :  fixed power cord  
 terminals (solder pins for PCB)  
 permanent connection  
 appliance inlet  
 direct plug in  
 battery operated

Please tick above box  when applicable

Additional information :  
 Ambient temperature : -40~+85°C  
 Location Category : Indoor  
 SPD type : Type 2 or 3  
 Test class : Class II & III  
 Nominal discharge current I<sub>n</sub> : 5kA  
 Max. discharge current I<sub>max</sub> : 10kA  
 Terminals : Screw or spring contact  
 Number of ports : Two  
 Mounting method : Fixation hole  
 Voltage Protective level U<sub>p</sub> : ≤1.5/1.5kV for MLP1-230L\* series; ≤1.8/1.5kV for MLP1-270L\* series  
 TOV withstand characteristic UT : 335V/5s(L-PE),1200V/300A/200ms(N-PE)  
 L-N terminal material : Sn plated copper  
 Alarm terminal : N/A

TÜV Rheinland Group

License holder

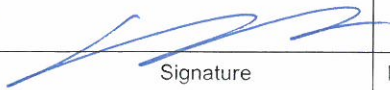
Date

Signature

Name

Company Stamp and Signature

26.05.2015



Certificate No. R50307743 0001 Our Reference 01-KSH-15081541 001 Appendix No. 1

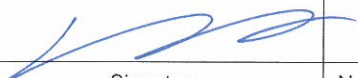
**Constructional Data Form (CDF) for Surge Protective Device (SPD)**

Model list		
Model		MLPC1-230L-V; MLPC1-230L-R; MLPC1-230L-V/50; MLPC1-230L-R/50
Single-phase or three-phase		Single-phase
Rated supply Voltage	$U_n$	230-277Vac
Frequency of the supply mains		50Hz
Voltage limiting component		MOV(TFMOV15S511)
Voltage switching component		GDT(BHS 800)
Maximum Continuous Operating Voltage	$U_c$	320 Vac
Nominal discharge current	$I_n$	5kA
Max. discharge current	$I_{max}$	10kA
Voltage Protective level	$U_p$	$\leq 1.5/1.5kV(L-N/L-PE)$
TOV withstand characteristic	$U_T$	335V/5s(L-PE), 1200V/300A/200ms(N-PE)
prospective short circuit current of a power supply	$I_p$	10kA
short-circuit current rating	$I_{scsr}$	10kA
Alarm terminal		Failure mode: disconnected from AC supply and LED off.
Altitude		2000m

TÜV Rheinland Group

License holder

26.05.2015



Date

Signature

Name

Company Stamp and Signature



Certificate No. R50307743 0001 Our Reference 01-KSH-15081541 001 Appendix No. 1

**Constructional Data Form (CDF) for Surge Protective Device (SPD)**

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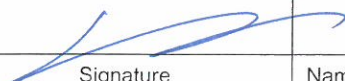
Model list		
Model		MLPC1-277L-V; MLPC1-277L-R; MLPC1-277L-V/50; MLPC1-277L-R/50
Single-phase or three-phase		Single-phase
Rated supply Voltage	$U_n$	230-277Vac
Frequency of the supply mains		50Hz
Voltage limiting component		MOV(TFMOV15S621)
Voltage switching component		GDT(BHS 800)
Maximum Continuous Operating Voltage	$U_c$	320 Vac
Nominal discharge current	$I_n$	5kA
Max. discharge current	$I_{max}$	10kA
Voltage Protective level	$U_p$	$\leq 1.8/1.5kV(L-N/L-PE)$
TOV withstand characteristic	$U_T$	335V/5s(L-PE), 1200V/300A/200ms(N-PE)
prospective short circuit current of a power supply	$I_P$	10kA
follow current interrupt rating	$I_{fi}$	
Alarm terminal		Failure mode: disconnected from AC supply and LED off.
Altitude		2000m

TÜV Rheinland Group

License holder

26.05.2015

Date



Signature

Name

Company Stamp and Signature

Certificate No. R50307743 0001 Our Reference 01-KSH-15081541 001 Appendix No. 1

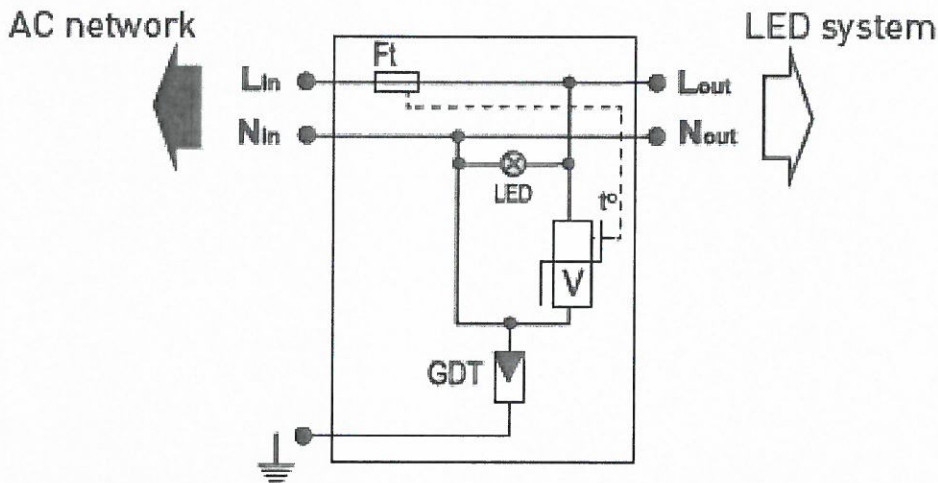
**Constructional Data Form (CDF) for Surge Protective Device (SPD)**

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**Critical Components**

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Enclosure / Mounting part	NILIT	PA66 (A G5FR C4)	CTI 400	UL	E331274
Varistor	SET	TMOV15S511/621	Uc=320V	UL	E322662 VACA2
GDT	CITEL	BHS 800	800V	UL	E326289
Sealing compound	-	-	-	-	-

Electrical diagram:

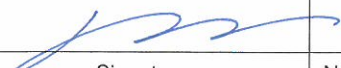


- V : Varistor
- Ft : Thermal fuse
- LED : Disconnection indicator
- T° : Thermal system disconnection
- GDT : Gas Discharge Tube

TÜV Rheinland Group

License holder

26.03.2015



Date

Signature

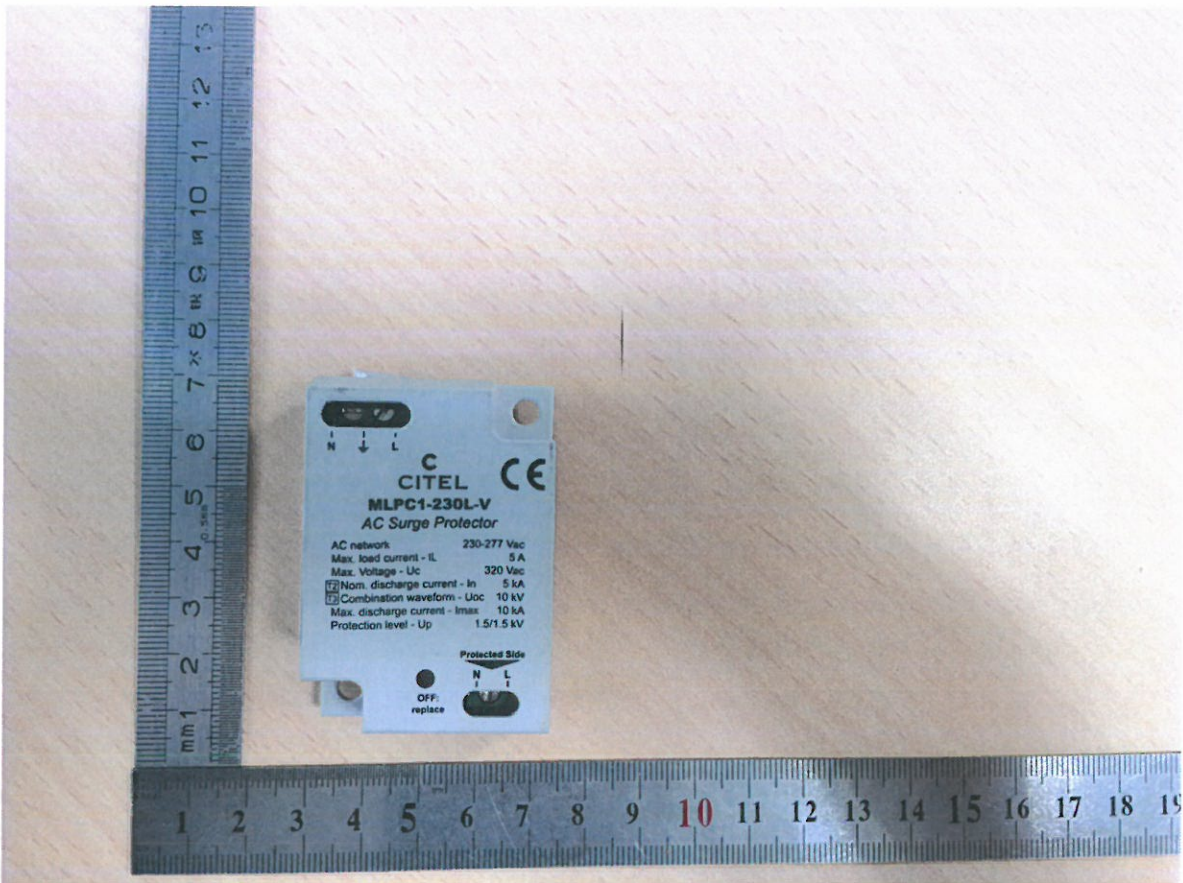
Name

Company Stamp and Signature

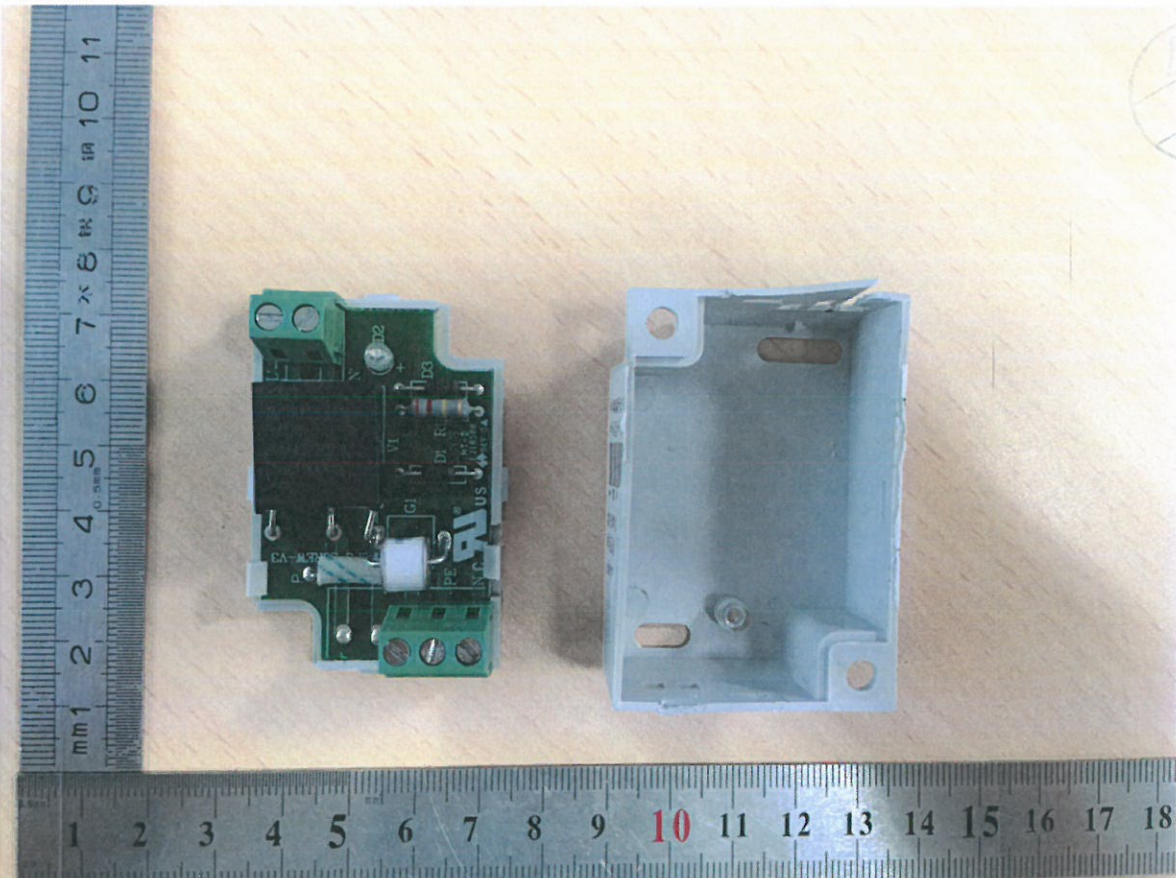


Report Number: 15081541 001

Model: MLPC1-230L-V; MLPC1-230L-R; MLPC1-230L-V/50;  
MLPC1-230L-R/50; MLPC1-277L-V; MLPC1-277L-R;  
MLPC1-277L-V/50; MLPC1-277L-R/50



Picture 1

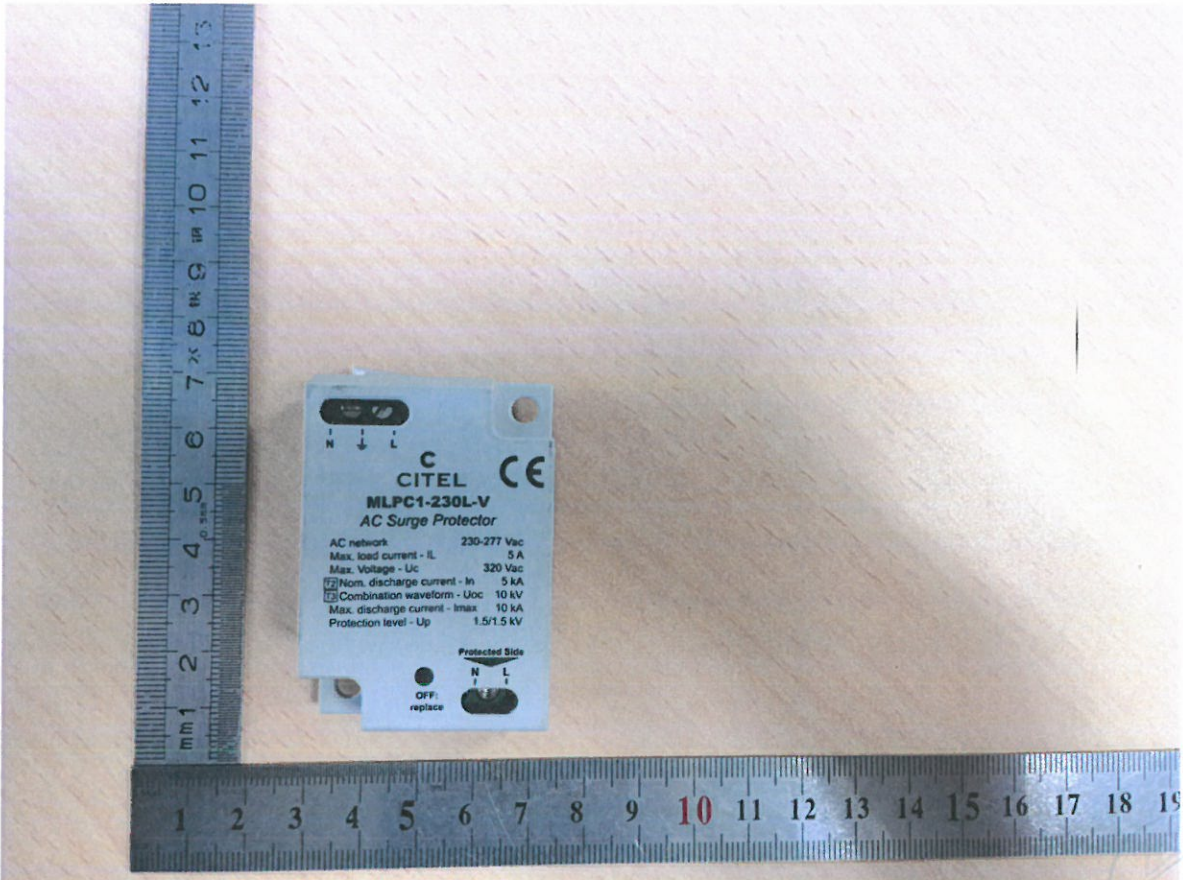


Picture 2

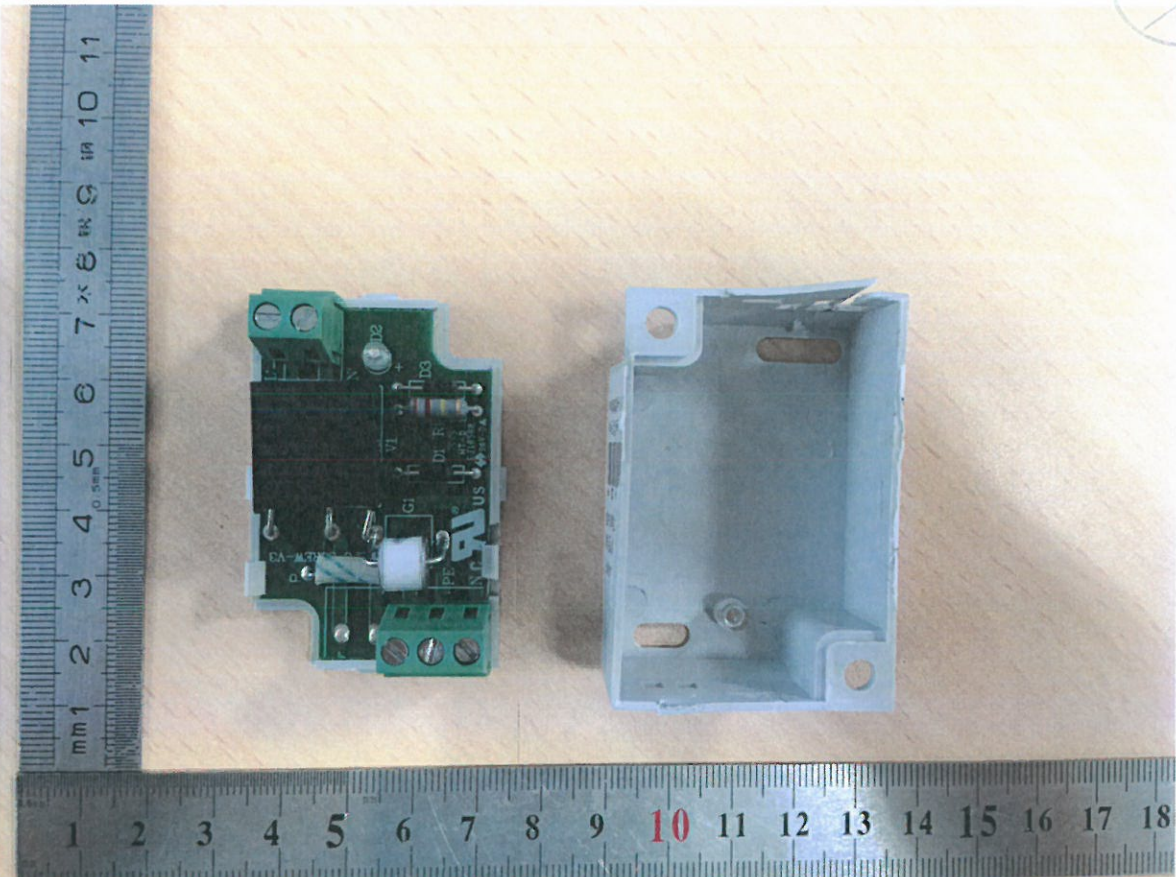


Report Number: 15081541 001

Model: MLPC1-230L-V; MLPC1-230L-R; MLPC1-230L-V/50;  
MLPC1-230L-R/50; MLPC1-277L-V; MLPC1-277L-R;  
MLPC1-277L-V/50; MLPC1-277L-R/50



Picture 1



Picture 2