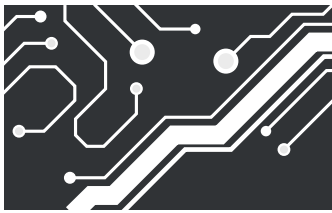




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## SAFE-PCB TECHNICAL INFORMATION UL / CUL certification

Safe-PCB Group has renewed all of its certificates of compliance issued by Underwriter Laboratories (UL).

Certificate of compliance **ZPMV2.E357349** has been updated.  
The new indices (SAFE-1 / SAFE-2 / SAFE-4 / SAFE-5 / SAFE-7 / SAFE-8 / SAFE-9 / SAFE-AL) are affixed to Safe-PCB manufacturing according to product families .

Marking : UL + indice.

Certificate of Compliance **ZPMV8.E357349** for Canada has been updated.  
The new indices (SAFE-4 / SAFE-5 / SAFE-7 / SAFE-8 / SAFE-9) are affixed to Safe-PCB manufacturing according to product families.

Marking: CUL + indice

Basically, Safe-PCB affixes the following markings on printed circuit boards:

. PCBs multilayers type FR4 :	SAFE-4 (UL + CUL - USA + CANADA)
. PCBs multilayers high frequency type ROGERS:	SAFE-5 (UL + CUL - USA + CANADA)
. PCBs 1 and 2 layers type FR4:	SAFE-7 (UL + CUL - USA + CANADA)
. PCBs 1 and 2 layers high heat dissipation type CEM3:	SAFE-8 (UL + CUL - USA + CANADA)
. PCBs 1 and 2 layers high frequency type ROGERS:	SAFE-9 (UL + CUL - USA + CANADA)
. PCBs 1 and 2 layers aluminum type IMS:	SAFE-AL (UL - USA)

Old UL markings SAFE-1 and SAFE-2 remain available on following PCBs :

. PCBs multilayers type FR4 :	SAFE-1 (UL - USA only)
. PCBs 1 and 2 layers type FR4 :	SAFE-2 (UL - USA only)

Ales on May 31, 2019 for Safe-PCB group

Vincent CHARRAT  
director

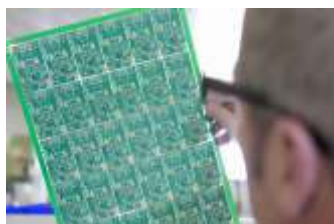
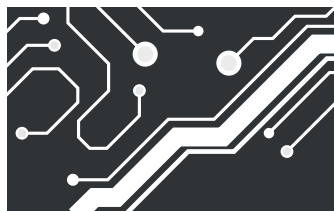




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## INFORMATION TECHNIQUE CERTIFICATS UL et CUL

Le groupe Safe-PCB a renouvelé ses certificats de conformité délivrés par Underwriter Laboratories (UL).

Le certificat de conformité **ZPMV2.E357349** pour les Etats-Unis a été mis à jour. Les nouveaux indices (SAFE-1 / SAFE-2 / SAFE-4 / SAFE-5 / SAFE-7 / SAFE-8 / SAFE-9 / SAFE-AL) sont apposés sur les fabrications de Safe-PCB en fonction des familles de produits.

Marquage: UL + indice.

Le certificat de conformité **ZPMV8.E357349** pour le Canada a été mis à jour. Les indices (SAFE-4 / SAFE-5 / SAFE-7 / SAFE-8 / SAFE-9) sont apposés sur la fabrication de Safe-PCB selon les familles de produits.

Marquage: CUL + indice

De base, Safe-PCB appose les marquages suivants sur les circuits imprimés :

. PCBs multicouches type FR4 :	SAFE-4 ( UL+CUL - USA+CANADA)
. PCBs multicouches haute fréquence type ROGERS :	SAFE-5 ( UL+CUL - USA+CANADA)
. PCBs 1 et 2 couches type FR4 :	SAFE-7 ( UL+CUL - USA+CANADA)
. PCBs 1 et 2 couches haute dissipation thermique type CEM3 :	SAFE-8 ( UL+CUL - USA+CANADA)
. PCBs 1 et 2 couches haute fréquence type ROGERS :	SAFE-9 ( UL+CUL - USA+CANADA)
. PCBs 1 et 2 couches aluminium type SMI :	SAFE-AL ( UL - USA)

Les marquages UL SAFE-1 and SAFE-2 restent valable sur les circuits imprimés suivants :

. PCBs multicouche type FR4 :	SAFE-1 (UL- USA only)
. PCBs 1 et 2 couches type FR4 :	SAFE-2 (UL - USA only)

Ales, le 30 mai 2019 pour le groupe Safe-PCB

Vincent CHARRAT  
directeur



# ZPMV2.E357349 - WIRING, PRINTED - COMPONENT

## Wiring, Printed - Component

See General Information for Wiring, Printed - Component

**SAFE COMPANY LTD**

E357349

NO210, WANGFENG MIDDLE ROAD  
 SHAJING  
 SHENZHEN, GUANGDONG 518103 CHINA

Type	Cond Width		Cond Thk mic(mil)	SS/ DS/ DSO	Max	Max		Meets C UL796 DSR	C T I		
	Min mm(in)	Edge mm(in)			Area Diam mm(in)	Solder Limits C	Oper Temp C			Flame Class	
<b>Multilayer printed wiring boards.</b>											
<b>SAFE-1</b>	0.15 (0.006)	0.35 (0.014)	17 (0.67) Int:70	DS	50.8 (2.0)	288	20	130	V-0	All	-
<b>SAFE-4</b>	0.1 (0.004)	0.1 (0.004)	17 (0.67) Int:34	DS	50.8 (2.0)	280	20	130	V-0	All	*
<b>SAFE-5</b>	0.1 (0.004)	0.1 (0.004)	17 (0.67) Int:34	DS	50.8 (2.0)	280	20	130	V-0	All	2
<b>Single layer metal base printed wiring boards.</b>											
<b>SAFE-AL</b>	0.1 (0.004)	0.15 (0.006)	17 (0.67)	SS	102 (4.0)	288	20	90	V-0	All	*
<b>Single layer printed wiring boards.</b>											
<b>SAFE-2</b>	0.15 (0.006)	0.35 (0.014)	17 (0.67)	DS	50.8 (2.0)	288	20	130	V-0	All	-
<b>SAFE-7</b>	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280	20	130	V-0	All	*
<b>SAFE-8</b>	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280	20	130	V-0	All	*
<b>SAFE-9</b>	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280	20	130	V-0	All	2

\* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

Last Updated on 2019-05-30

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## ZPMV8.E357349

### Wiring, Printed Certified for Canada - Component

If you notice a change to your ZPMV8 Listing Card, click [here](#) to learn more.

For enhanced search functionality, please visit UL's [iQ™ Family of Databases](#).

Click on a product designation for complete information.

[Page Bottom](#)

### Wiring, Printed Certified for Canada - Component

[See General Information for Wiring, Printed Certified for Canada - Component](#)

#### SAFE COMPANY LTD

E357349

NO210, WANGFENG MIDDLE ROAD

SHAJING

SHENZHEN, GUANGDONG 518103 CHINA

	Cond Width		Cond	SS/ DS/ DSO	Max			Max	Meets	C
	Min	Edge			Area	Solder	Oper	Flame		
Type	mm(in)	mm(in)	Thk mic(mil)		Diam mm(in)	Limits C sec	Temp C	Class	UL796 DSR	T I
<b>Multilayer printed wiring boards.</b>										
SAFE-4	0.1 (0.004)	0.1 (0.004)	17 (0.67) Int:34	DS	50.8 (2.0)	280 20	130	V-0	All	*
SAFE-5	0.1 (0.004)	0.1 (0.004)	17 (0.67) Int:34	DS	50.8 (2.0)	280 20	130	V-0	All	2
<b>Single layer printed wiring boards.</b>										
SAFE-7	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280 20	130	V-0	All	*
SAFE-8	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280 20	130	V-0	All	*
SAFE-9	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	280 20	130	V-0	All	2

\* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation and the Recognized Component Mark for Canada,



. May be followed by a suffix to denote factory identification or burning test classification.

[Last Updated on 2018-12-17](#)

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