

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 15V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ15A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

1. Open the FTP website on your windows explorer: ftp://pubftp.littelfuse.com/ICP_Test_Reports/
2. Retrieve the username and password thru your corresponding Sales / FAE or email envrequests@littelfuse.com
3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by: 
 Diana Jane D. Gabinete
 Environmental Data Analyst

Noted by: 
 Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 18V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ18A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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Issued by:


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Noted by:


Arsenio M. Cesista, Jr.
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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 33V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ33A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 30V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ30CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.


Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 17V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ17A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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3. Find the corresponding ICP ID and download the corresponding ICP report.

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Noted by: 
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Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 54V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ54A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 64V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ64A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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 Global EHS Analyst


Noted by: Arsenio M. Cesista, Jr.
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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 33V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ33CA

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Proprietary	Wafer Passivation	7c-I
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectric devices) or in a glass or ceramic matrix compound


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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 45V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ45CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 18V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ18CA

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Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
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Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 36V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ36CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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Issued by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 26V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ26A

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Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 5.0V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ5.0CA

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ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0377	Copper	Clip	
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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Noted by: Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 180V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ180A-JD

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-l
ICP-0377	Copper	Clip	
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 5.0V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ5.0A

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Table 1. Product material composition and applicable RoHS exemption(s)


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ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
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Issued by: 
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 Global EHS Engineer


Noted by: Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 14V 10%UNI DO-214AB TR13 RoHS
Product Number: SMCJ14A

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Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Sharie Lyn S. Mantilla
Global EHS Engineer


Noted by: Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 28V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ28A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 36V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ36A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by: Arsenio M. Cesista, Jr.
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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 58V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ58A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 6.0V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ6.0CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-1780	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 7.0V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ7.0CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 70V 5%BI DO-214AB TR13 RoHS
Product Number: SMCJ70CA

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1780	Copper	Lead Frame	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 100V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ100A

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-0377	Copper	Clip	
ICP-1780	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS 1.5KW 200V 5%UNI DO-214AB TR13 RoHS
Product Number: SMCJ200A

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0377	Copper	Clip (Copper Metal)	
ICP-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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