

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 6.5V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ6.5A

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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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 (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/](ftp://pubftp.littelfuse.com/ICP_Test_Reports/)
2. Retrieve the username and password thru your corresponding Sales / FAE or email [envrequests@littelfuse.com](mailto: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 3KW 13V 5%BI DO-214AB TR13 RoHS  
**Product Number:** SMDJ13CA

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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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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:**   
 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 3KW 36V 5%BI DO-214AB TR13 RoHS  
**Product Number:** SMDJ36CA

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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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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.

**Issued by:**



Jennilyn R. Dinglasan  
 Global EHS Supervisor

**Noted by:**



Arsenio M. Cesista, Jr.  
 Global EHS Manager

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 13V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ13A

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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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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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**Noted by:**

  
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Global EHS Manager

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 12V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ12A

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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-1780	Copper	Lead Frame	
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.

**Issued by:**



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Global EHS Analyst

**Noted by:**



Arsenio M. Cesista, Jr.  
Global EHS Manager

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 20V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ20A

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-1780	Copper	Lead Frame	
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.

**Issued by:**



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Global EHS Analyst

**Noted by:**



Arsenio M. Cesista, Jr.  
Global EHS Manager

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 43V 5%BI DO-214AB TR13 RoHS  
**Product Number:** SMDJ43CA

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.

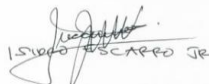
Table 1. Product material composition and applicable RoHS exemption(s)

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-1780	Copper	Lead Frame	
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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**Issued by:**  
 Isidro Escarro Jr.  
 Global EHS Engineer



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

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 70V 5%BI DO-214AB TR13 RoHS  
**Product Number:** SMDJ70CA

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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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.

**Issued by:**

  
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 3KW 14V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ14A

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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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:**   
 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 3KW 16V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ16A

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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-1776	F367SN10-90P4, Pb90Sn10	Solder Paste	7a
ICP-1780	Copper	Lead Frame	
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:**   
 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 3KW 36V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ36A

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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-0377	Copper	Clip	
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


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**Issued by:**

  
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 3KW 60V 5%UNI DO-214AB TR13 RoHS  
**Product Number:** SMDJ60A

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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-0377	Copper	Clip	
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


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**Issued by:**

  
Sharie Lyn S. Mantilla  
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Arsenio M. Cesista, Jr.  
Global EHS Manager

## RoHS Lab Analysis Report and Certification



**Product Description:** TVS 3KW 33V 5%BI DO-214AB TR13 RoHS  
**Product Number:** SMDJ33CA

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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)
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ICP-0377	Copper	Clip	
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


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**Issued by:**

  
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