

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE27CA T&R
Product Number: 1.5KE27CA

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	-	Wafer Passivation	7c-I
ICP-1785	-	Lead Wire	
ICP-0031	-	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	-	Tin Plating	
ICP-0035	-	Silver Ink	

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 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 DIODE AXIAL LEAD - 1.5KE100CA T&R
Product Number: 1.5KE100CA

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	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-1785	-	Lead Wire	
ICP-0031	-	Solder Wafer	7a
ICP-0028	-	Epoxy Molding Compound	
ICP-0034	-	Tin Plating	
ICP-0035	-	Silver Ink	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - 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: 
 Jennilyn R. Dinglasan
 Global EHS Supervisor

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

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE200A T&R
Product Number: 1.5KE200A

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	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-1785	-	Lead Wire	
ICP-0031	-	Solder Wafer	7a
ICP-0028	-	Epoxy Molding Compound	
ICP-0034	-	Tin Plating	
ICP-0035	-	Silver Ink	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - 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: 
 Jennilyn R. Dinglasan
 Global EHS Supervisor

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

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE30CA T&R
Product Number: 1.5KE30CA

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	-	Wafer Passivation	7c-1
ICP-1785	-	Lead Wire	
ICP-0031	-	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	-	Tin Plating	
ICP-0035	-	Silver Ink	

Remarks: [7a - Lead in high melting temperature type solders \(lead-based alloys containing 85 % by weight or more lead\)](#)
[7c-1 - Electrical and electronic components containing lead in a plated surface other than dielectric components](#)

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:



Jennilyn R. Dinglasan
 Global EHS Supervisor

Noted by:



Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE33CA BULK
Product Number: 1.5KE33CA-B

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-1
ICP-1785	Non Oxygen Copper	Lead Wire (Copper Metal)	
ICP-0031	Pb:Sn:Ag=92.5:5:2.5	Solder Wafer	7a
ICP-0036	Non Oxygen Copper	Copper Spacer - Double Head (Copper Metal)	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	Pure Matte Tin	Tin Plating (Axial)	
ICP-0035	-	UV Silver Ink	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - 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: 
 Jennilyn R. Dinglasan
 Global EHS Supervisor

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

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE400CA T&R
Product Number: 1.5KE400CA

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-1785	Non Oxygen Copper	Lead Wire (Copper Metal)	
ICP-0036	-	Copper Spacer - Double Head (Copper Metal)	
ICP-0031	Pb:Sn:Ag=92.5:5:2.5	Solder Wafer (Silvery Solder Wafer)	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	Pure Matte Tin	Tin Plating - Axial	
ICP-0035	-	UV Ink (Silver Gray Ink)	

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.

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:



Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager



Expertise Applied | Answers Delivered
 8755 W. Higgins Road
 Suite 500
 Chicago, IL 60631
 www.littelfuse.com

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE440A
Product Number: 1.5KE440A

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-1785	Non Oxygen Copp	Lead Wire (Copper Metal)	
ICP-0031	Pb:Sn:Ag=92.5:5:2	Solder Wafer	7a
ICP-0036	Non Oxygen Copp	Copper Spacer - Double Head (Copper Metal)	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	Pure Matte Tin	Tin Plating (Axial)	
ICP-0035	-	UV Silver Ink	

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: 
 Sharie Lyn S. Mantilla
 Global EHS Engineer

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



Expertise Applied | Answers Delivered
 8755 W. Higgins Road
 Suite 500
 Chicago, IL 60631
 www.littelfuse.com

RoHS Lab Analysis Report and Certification



Product Description: TVS DIODE AXIAL LEAD - 1.5KE220A T&R
Product Number: 1.5KE220A

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-1785	Non Oxygen Copp	Lead Wire (Copper Metal)	
ICP-0031	Pb:Sn:Ag=92.5:5:2	Solder Wafer	7a
ICP-0036	Non Oxygen Copp	Copper Spacer - Double Head (Copper Metal)	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	Pure Matte Tin	Tin Plating (Axial)	
ICP-0035	-	UV Silver Ink	

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:

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 DIODE AXIAL LEAD - 1.5KE220CA T&R
Product Number: 1.5KE220CA

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-1785	Non Oxygen Copper	Lead Wire (Copper Metal)	
ICP-0036	-	Copper Spacer - Double Head (Copper Metal)	
ICP-0031	Pb:Sn:Ag=92.5:5:2.5	Solder Wafer (Silvery Solder Wafer)	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-0034	Pure Matte Tin	Tin Plating (Axial)	
ICP-0035	-	UV Silver Ink	

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.

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:



Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager