

RoHS Lab Analysis Report and Certification



Product Description: MLV VARISTOR 9V 0402 ML SERIES STD
Product Number: V9MLA0402NR

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-I |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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:



Jennilyn R. Dinglasan
 Global EHS Supervisor

Noted by:



Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V14MLA0805NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | 089021 | Black Chip (Glass Insulation) | 7c-I |
| ICP-1898 | 087310 | AG/PD INNER ELECT PASTE ML-3017 (MS308) | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: 
DIANA JANE DE GUZMAN
Global EHS Analyst

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

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V26MLA0603NR

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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:


DIANA JANE DE GUZMAN
Global EHS Analyst

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V3.5MLA0603H

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-l |
| ICP-1898 | 087310 | Inner Electrode Paste | |
| ICP-0445 | 087319 | End Termination Paste | 7c-l |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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:


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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: MLV VARISTOR 9V 0402 ML SERIES LOW CAP
Product Number: V9MLA0402LNR

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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:


 Sharie Lyn S. Mantilla
 Global EHS Engineer

Noted by:


 Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V5.5MLA0603NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1898 | 087310 | AG/PD INNER ELECT PASTE ML-3017 (MS308) | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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:


Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V42MLA1206NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V33MLA1206H

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | 089021 | Black Chip (Glass Insulation) | 7c-l |
| ICP-1757 | 087368 | Inner Electrode Paste | |
| ICP-0445 | 087319 | End Termination Paste | 7c-l |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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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RoHS Lab Analysis Report and Certification



Product Description: MLV VARISTOR 5.5V 0402 ML SERIES LOW CAP
Product Number: V5.5MLA0402LNR

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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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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: MLV VARISTOR 14V 0402 ML SERIES STD
Product Number: V14MLA0402NR

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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: MLV VARISTOR 5.5V 0402 ML SERIES STD
Product Number: V5.5MLA0402NR

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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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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: 3MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V5.5MLA0603LNR

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-l |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0436 | Sn100E-xxx | External Electrode (Tin R Rounds) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V26MLA1206A

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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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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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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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V85MLA1210NA

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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:


Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V85MLA1210NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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:


Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V26MLA0603NA

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-1848 | Black Chip (except | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-l |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-l |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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
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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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V26MLA0603NH

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-1848 | Black Chip (except | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-l |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-l |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: [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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V5.5MLA0805LNH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | 089021 | Black Chip (Glass Insulation) | 7c-I |
| ICP-1898 | 087310 | AG/PD INNER ELECT PASTE ML-3017 (MS308) | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V5.5MLA1206NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | 089021 | Black Chip (Glass Insulation) | 7c-I |
| ICP-1898 | 087310 | AG/PD INNER ELECT PASTE ML-3017 (MS308) | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V30MLA0805LNH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | 089021 | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V68MLA1206H

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V48MLA1206NH

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V68MLA1206NA

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V68MLA1206NH

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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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V68MLA1206NT

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V18MLA0603A

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-1848 | Black Chip (except 2220) | Black Chip (Ceramic) | |
| ICP-1849 | - | Black Chip (Glass Insulation) | 7c-I |
| ICP-1757 | 087368 | Ag/Pd(80/20) INNER ELECT PASTE ML-3026 | |
| ICP-0445 | 087319 | CH/ML END TERM AG/PT M2257D (MS208) | 7c-I |
| ICP-0457 | 087364 | Protavic Ag-epoxy paste BCE30381 | |
| ICP-0435 | - | Nickel R rounds | |
| ICP-0447 | - | Solder (Tin Plating) | |

Remarks: 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: MULTI-LAYER VARISTOR SURFACE MOUNT
Product Number: V18MLA0402NRX1

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-1562 | Zinc Oxide | Metal Oxide Layer | |
| ICP-0431 | G02 | Glass Sintered Flux in Metal Oxide Layer | 7c-I |
| ICP-0432 | ML-3902 | Inner Electrode | |
| ICP-0434 | S-300 MK | Overcoat | |
| ICP-0433 | A846 | Other Additives in Metal Oxide Layer | |
| ICP-1666 | 5450T | End Termination | |
| ICP-0435 | - | Nickel External Electrode | |
| ICP-0436 | Sn100E-xxx | Tin External Electrode | |

Remarks: 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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