

Littelfuse, Inc.  
8755 West Higgins Road, Suite 500  
Chicago, IL 60631 USA  
(773) 628-1000

9/2/2026

**WBGXC2601001**

### New assembly plant for Littelfuse high voltage MOSFET in i4 package

Dear valued customers and partners,

Littelfuse intends to transfer the assembly of its high-voltage MOSFET in isolated ISOPLUS i4pac packages into its in-house assembly facility in the Philippines soon. This transfer will improve our supply chain efficiency, and our service levels for customers.

. **Affected part numbers:** please refer to [Affected part numbers](#) (p. 3)

. **Schedule:** parts will be delivered from the in-house factory starting from **December 2026**.

| Summary of changes    |                                                            |
|-----------------------|------------------------------------------------------------|
| Country of origin     | No change - Philippines                                    |
| Form, fit, function   | No change                                                  |
| Part number           | No change                                                  |
| Bill of material      | Full tin pin plating in the new location, no other changes |
| Assembly process flow | No change                                                  |
| Assembly equipment    | Identical or better                                        |
| Marking & Labeling    | Some differences. Details in appendix.                     |
| Packing               | Some differences. Details in appendix                      |

A lack of reply to this change notification before **Oct. 5<sup>th</sup>, 2026**, will be considered an acceptance of the change.

Please contact your Regional Sales representative or Field Application Engineer for any inquiry or further details.

Best Regards,  
Francois Perraud  
Product Marketing Manager  
Littelfuse, Inc.  
[FPerraud@Littelfuse.com](mailto:FPerraud@Littelfuse.com)

---

**Contents**

|                                            |   |
|--------------------------------------------|---|
| Affected part numbers .....                | 3 |
| Bill of Material changes.....              | 3 |
| Qualification summary .....                | 3 |
| Package Outline / Dimension .....          | 4 |
| Tube dimensions – summary of changes ..... | 5 |
| Change of markings.....                    | 6 |
| Examples of new marking and labels .....   | 7 |
| New location – example part marking .....  | 7 |
| New location – example labels.....         | 8 |

## Affected part numbers

| Part number | Description                            |
|-------------|----------------------------------------|
| IXTF1N450   | 4500V, 80mΩ n-channel MOSFET in i4pak  |
| IXTF1N450BS | 4500V, 80mΩ n-channel MOSFET in i4pak  |
| IXTF02N450  | 4500V, 625mΩ n-channel MOSFET in i4pak |
| IXTF1R4N450 | 4500V, 40mΩ n-channel MOSFET in i4pak  |

## Bill of Material changes

| ASSEMBLY COMPONENT   | Change              |
|----------------------|---------------------|
| Die                  | No                  |
| DCB                  | No                  |
| Lead frame           | No                  |
| Solder Material      | No                  |
| Wire                 | No                  |
| Molding Compound     | No                  |
| Pin plating material | Yes (new: pure tin) |

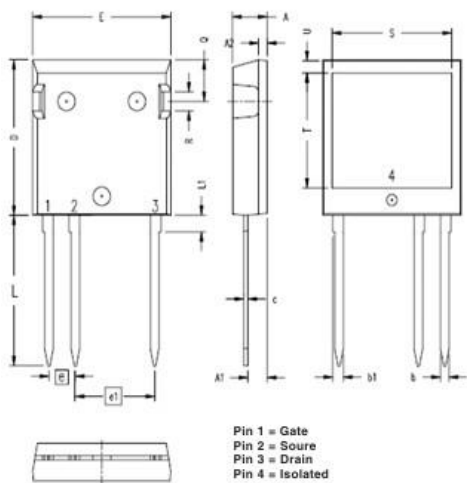
## Qualification summary

A summary of reliability test results is available on request.

## Package Outline / Dimension

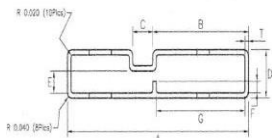
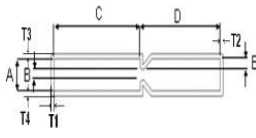
Within existing datasheet tolerances, provided below as reference.

### ISOPLUS i4-Pak™ (HV) Outline



| SYM | INCHES   |      | MILLIMETERS |       |
|-----|----------|------|-------------|-------|
|     | MIN      | MAX  | MIN         | MAX   |
| A   | .190     | .205 | 4.83        | 5.21  |
| A1  | .102     | .118 | 2.59        | 3.00  |
| A2  | .046     | .085 | 1.17        | 2.16  |
| b   | .045     | .055 | 1.14        | 1.40  |
| b1  | .058     | .068 | 1.47        | 1.73  |
| C   | .020     | .029 | 0.51        | 0.74  |
| D   | .819     | .840 | 20.80       | 21.34 |
| E   | .770     | .799 | 19.56       | 20.29 |
| e   | .150 BSC |      | 3.81 BSC    |       |
| e1  | .450 BSC |      | 11.43 BSC   |       |
| L   | .780     | .840 | 19.81       | 21.34 |
| L1  | .083     | .102 | 2.11        | 2.59  |
| Q   | .210     | .244 | 5.33        | 6.20  |
| R   | .100     | .180 | 2.54        | 4.57  |
| S   | .660     | .690 | 16.76       | 17.53 |
| T   | .590     | .620 | 14.99       | 15.75 |
| U   | .065     | .080 | 1.65        | 2.03  |

## Tube dimensions – summary of changes

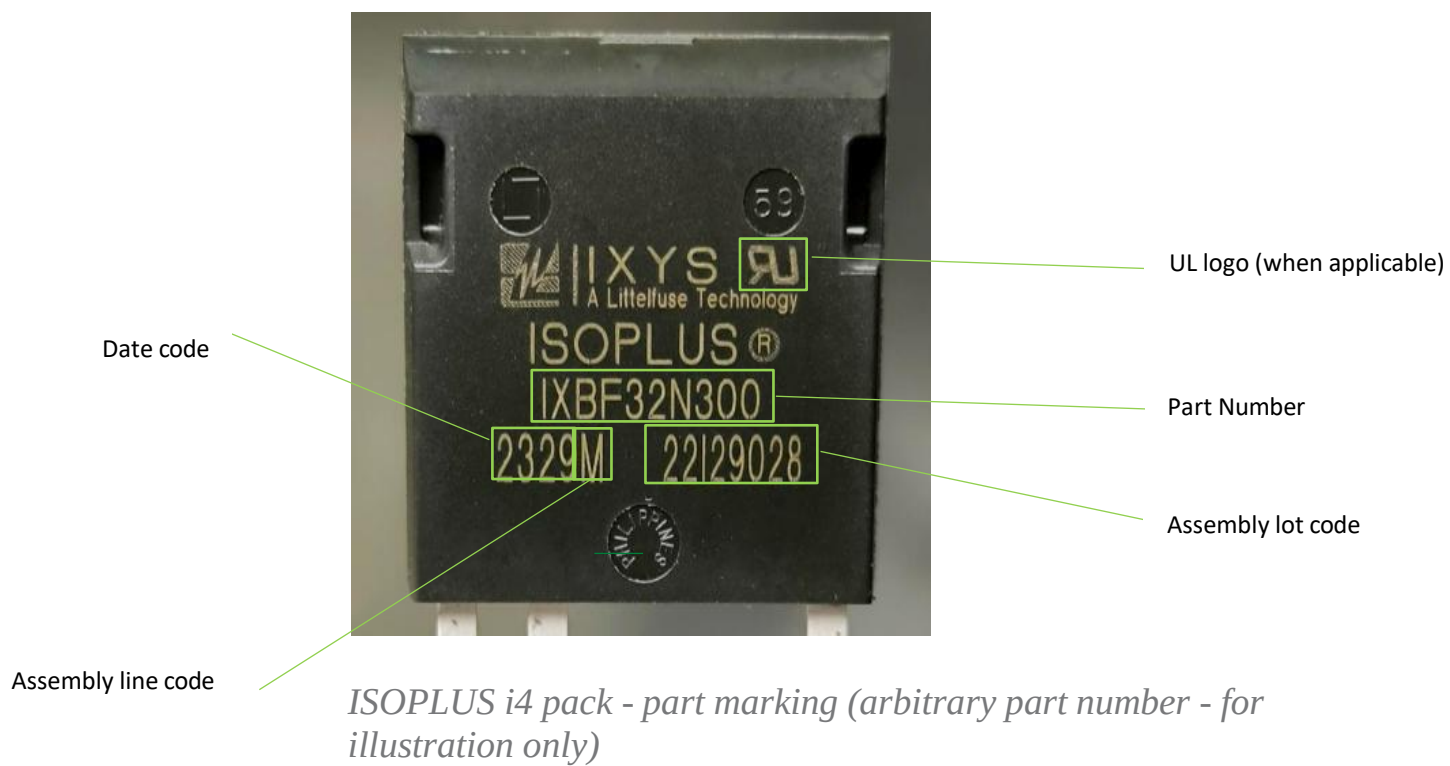
| PARAMETERS             | EXISTING LOCATION                                                                   | NEW LOCATION                                                                         | Difference |
|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------|
| Shipping Tube          |                                                                                     |                                                                                      |            |
| Length, mm             | 20.95 - 21.05                                                                       | 20.95 – 21.05                                                                        | No         |
| Width, mm              | 1.79 – 1.81                                                                         | 1.79 -1.81                                                                           | No         |
| Height, mm             | 0.32 – 0.34                                                                         | 0.28 - 0.33                                                                          | Yes        |
| Material Thickness, mm | 0.03                                                                                | 0.03                                                                                 | No         |
| Tube Opening, mm       | 0.26 x1.74                                                                          | 0.24 x 1.75                                                                          | Yes        |
| Quantity per tube      | 25                                                                                  | 25                                                                                   | No         |
| Anti-static            | Yes                                                                                 | Yes                                                                                  | No         |
| End Plug               |                                                                                     |                                                                                      |            |
| Design                 |  |  | Yes        |

## Change of markings

| Description         | Existing location                                                                   | New location                                                                         | Change |
|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|
| <b>Unit Marking</b> |                                                                                     |                                                                                      |        |
| Logo                |    |    | Y      |
| UL Logo             | No UL Logo                                                                          | With UL Logo                                                                         | Y      |
| Isoplus Trademark   | None                                                                                | With trademark                                                                       | Y      |
| Partname            | Device Name                                                                         | Device Name                                                                          | N      |
| Date Code           | FPMDDYY                                                                             | YYWW                                                                                 | Y      |
| Assembly line code  | P                                                                                   | M                                                                                    | Y      |
| Lot #               | Fab lot ID                                                                          | Lipa Lot #                                                                           | Y      |
| <b>Tube Label</b>   |                                                                                     |                                                                                      |        |
| Logo                |    |    | Y      |
| Qty per tube        | 25                                                                                  | 25                                                                                   | N      |
| Part Number         | Device Name                                                                         | Device Name                                                                          | N      |
| Lot No              | Fab Lot ID                                                                          | Lipa Lot ID format                                                                   | Y      |
| Country of Origin   | Yes                                                                                 | Yes                                                                                  | N      |
| Code Type           | Barcode                                                                             | Barcode + 2D Code                                                                    | Y      |
| Date Code           | None                                                                                | YYWW                                                                                 | Y      |
| Assembly line code  | None                                                                                | M                                                                                    | Y      |
| <b>Box Label</b>    |                                                                                     |                                                                                      |        |
| RoHS Label          |  |  | Y      |
| Logo                |  |  | Y      |
| Qty per Box         | 250                                                                                 | 250                                                                                  | N      |
| Part Number         | Device Name                                                                         | Device Name                                                                          | N      |
| Lot No              | Fab Lot ID                                                                          | Lipa Lot ID format                                                                   | Y      |
| Country of Origin   | Yes                                                                                 | Yes                                                                                  | N      |
| Code Type           | 1DBarcode                                                                           | 1Barcode + 2D Code                                                                   | Y      |
| Date Code           | None                                                                                | YYWW                                                                                 | Y      |
| Assembly line code  | None                                                                                | M                                                                                    | Y      |

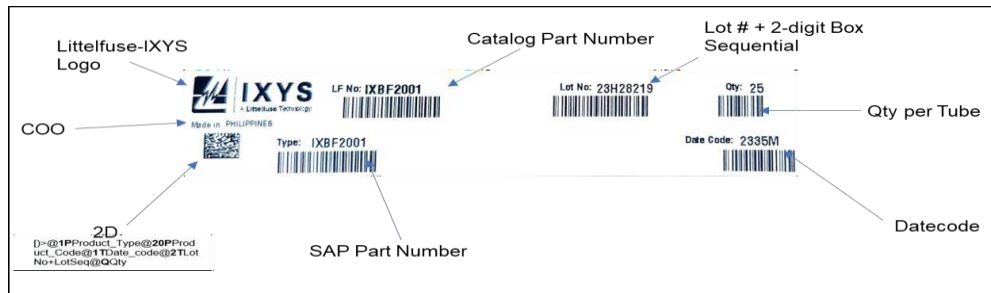
Examples of new marking and labels

New location – example part marking

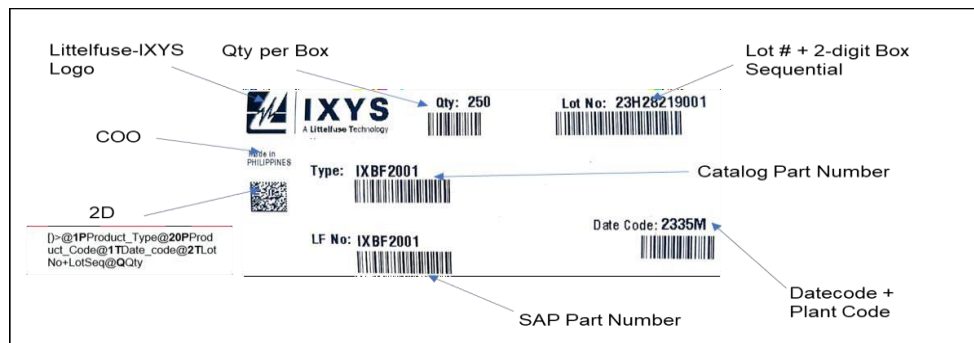


## New location – example labels

### Tube label



### Inner box label



### RoHS label

