



**THE DATASHEET OF
KP229IGE3518XTMA1**





Orderable Part Number OPN Translation Table

You can find your related information (OPN, pCPN, Sales Type, SP) here.

Orderable Part Number OPN Identifiers

The descriptive identifiers within the OPN tell you more about the product attributes. Please find the related information below.

Example for an OPN (the OPN relevant suffix are the last 5 digits)



1st digit: RoHS, Halogen and Totally Lead Free Status

| OPN suffix 1st digit | Hal free | RoHS compliant | Totally Lead free |
|----------------------|-----------|----------------|-------------------|
| 1 | | | |
| A | Yes | Yes | No |
| B | No | Yes | No |
| C | Undefined | Yes | No |
| D | Yes | No | No |
| N | No | No | No |
| E | Undefined | No | No |
| X | Yes | Yes | Yes |
| H | No | Yes | Yes |
| F | Undefined | Yes | Yes |

2nd and 3d digit: Packing type, Moisture Protection Packing and Packing Size

The 2nd digit shows the functional packing type in combination with the moisture protection packing.

The 3rd digit shows the number of devices per functional packing or the number of functional packings (denoted with 1)

| Packing type | | OPN suffix 2nd digit | OPN suffix 3rd digit: Packing Size* | | | | |
|--------------|-----------------------------|----------------------|-------------------------------------|--------------------------|---------------------------|-------------------------|-------------------------|
| | | | S | M | L | X | |
| Bare Die | ADHESIVE-BAKED PUNCHED TAPE | 3 | <=2000 | <=5000 | <=10000 | >10000 | |
| | BLISTER TAPE | 2 | <=2000 | <=5000 | <=10000 | >10000 | |
| | VACUUM RELEASED TRAY | 4 | <=10 | <=50 | <=100 | >100 | |
| | WAFER SAWN | 1 | 1 | <=13 | <=25 | >25 | |
| | WAFER UNSAWN | 6 | 1 | <=13 | <=25 | >25 | |
| | WAFFLE PACK | 5 | <=10 | <=50 | <=100 | >100 | |
| | HORIZONTAL FRAME SHIPPER | 7 | 1 ⁽²⁾ | <=13 ⁽²⁾ | <=25 ⁽²⁾ | >25 ⁽²⁾ | |
| Component | AMMO-PACK | NON DRY | A | <=1000 | <=1500 | <=2000 | >2000 |
| | BLISTER TRAY | NON DRY | W | <3 ⁽¹⁾ | <=6 ⁽¹⁾ | <=10 ⁽¹⁾ | >10 ⁽¹⁾ |
| | BULK | NON DRY | B | <=100 | <=500 | <=1000 | >1000 |
| | BULK | DRY | I | <=100 | <=500 | <=1000 | >1000 |
| | CARD BOARD (PRE PACK) | | F | 1 | >1 | >=300 | >=1000 |
| | CONTAINER | NON DRY | D | <=10 | <=20 | <=100 | >100 |
| | CONTAINER | DRY | Y | <=10 | <=20 | <=100 | >100 |
| | RADIAL REEL | | G | <=1000 | <=1500 | <=2000 | >2000 |
| | REEL FOR CHIP CARD | | H | 1 | <=1000 | <=10000 | >10000 |
| | TAPE & REEL | DRY | U | 1 ⁽¹⁾ (180mm) | 1 ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TAPE & REEL | NON DRY | T | 1 ⁽¹⁾ (180mm) | 1 ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TAPE & REEL LEFT | DRY | S | 1 ⁽¹⁾ (180mm) | 1x ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TAPE & REEL LEFT | NON DRY | R | 1 ⁽¹⁾ (180mm) | 1x ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TAPE & REEL RIGHT | DRY | X | 1 ⁽¹⁾ (180mm) | 1x ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TAPE & REEL RIGHT | NON DRY | E | 1 ⁽¹⁾ (180mm) | 1x ⁽¹⁾ (330mm) | >1 ⁽¹⁾ (180) | >1 ⁽¹⁾ (330) |
| | TRAY | DRY | Q | <3 ⁽¹⁾ | <=6 ⁽¹⁾ | <=10 ⁽¹⁾ | >10 ⁽¹⁾ |
| | TRAY | NON DRY | P | <3 ⁽¹⁾ | <=6 ⁽¹⁾ | <=10 ⁽¹⁾ | >10 ⁽¹⁾ |
| TUBE | DRY | L | <=10 ⁽¹⁾ | <=20 ⁽¹⁾ | <=40 ⁽¹⁾ | >40 ⁽¹⁾ | |
| TUBE | NON DRY | K | <=10 ⁽¹⁾ | <=20 ⁽¹⁾ | <=40 ⁽¹⁾ | >40 ⁽¹⁾ | |

* In devices per functional packing, if denoted with ⁽¹⁾ in functional packings per box

⁽²⁾ Wafer Sawn

| Packing type | | OPN suffix 2nd digit | OPN suffix 3rd digit: Packing Size* | | | |
|------------------------|----------------------|----------------------|-------------------------------------|--------|---------|--------|
| | | | S | M | L | X |
| Inactive packing types | Chip | C | 1 | | | |
| | Wafer sawn | J | 1 | <=13 | <=25 | >25 |
| | Single Box | N | 1 | | | |
| | Tape & Reel Bare Die | M | <=2000 | <=5000 | <=10000 | >10000 |
| | Trays non-dry | O | <=10 | <=50 | <=100 | >100 |
| | Wafer | V | 1 | | | |

* In devices per functional packing

Examples for packing type- and size

1. *TLE4250G with OPN TLE4250GNTSA1 and TLE4250GNTMA1*

This product comes on two different reel sizes: 180mm and 330mm.

One can see from the second digit that the product comes on tape & reel (T). Now the packing size can be determined by the third identifier. This product comes as “S” and “M”.

“S” means 180mm, “M” means 330mm. Even if this detail was not known, it becomes obvious on first sight that TLE4250GNTSA1 is smaller than TLE4250GNTMA1.

2. *SAE800G with OPN SAE800GXLLA1*

This product comes in Tubes (indicated by the “L” in the 2nd digit). The third digit of the OPN is also an “L” which indicates that there are between 21 and 40 tubes per box.

3. *SIPC03S2N03L with OPN SIPC03S2N03LX3MA1*

This product comes on Tape & Reel bare die (3). The third identifiers (M) indicates that there are between 2001 and 5000 bare dies on the reel.

Although none of the packing size indications gives an exact number of products per packing, it allows you to distinguish between two different products: You can immediately see which product

4th and 5th digit: Designator

The designator increments (e.g. from A1 to A2) whenever a new SP number is set up that does not differ from a previous product in either Salesname or the first three OPN suffix identifiers. Product variants such as different temperature ranges or ROM codes can therefore be recognized by the designator.

Looking for pricing, stock, or lifecycle information?

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