

*Rethink the Possibilities™*  
*Discretes do Matter™*

**Bare Die and Wafer  
Part Numbering & Packing Guide**

**Central™**  
**Semiconductor Corp.**

[www.centrasemi.com](http://www.centrasemi.com)

# Bare Die Part Numbering System

- This specification defines the method for bare die packing and part number identification.  
Example: Small Signal NPN High Voltage Transistor Die, 2N3439, Tray (Waffle) Package.

CP310 - 2N3439 - CT

**DEVICE TYPE NUMBER**  
(10 ALPHA/NUMERIC MAX)

**CENTRAL PROCESS NUMBER**  
(5 - 7 ALPHA/NUMERIC)

CPxxx = Transistor

CPZxx = Zener Diode

CPDxx = Diode

CPQxx = TRIAC

CPSxx = SCR

## PACKING METHOD

CM = Singulated bare die,  
100% electrically tested,  
100% visually inspected,  
reject die removed,  
tray (waffle) package

CT = Singulated bare die,  
100% electrically tested,  
reject die removed,  
tray (waffle) package

WN = Wafer form,  
100% electrically tested,  
reject die inked

WR = Wafer form,  
100% electrically tested,  
sawn and mounted on adhesive  
membrane and plastic ring,  
reject die inked

WS\* = Wafer form,  
100% electrically tested,  
sawn and mounted on adhesive  
membrane and metal frame,  
reject die inked

**\*WS is by special order only.**  
Please contact Central sales  
representative at 631-435-1110.

Visit the Central website for a complete  
listing of all available WR and WS  
specifications:

[www.centalsemi.com/bdspecs](http://www.centalsemi.com/bdspecs)

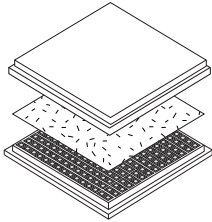


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R1 (5-April 2017)

## BARE DIE PACKING OPTIONS

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### BARE DIE IN TRAY (WAFFLE) PACK

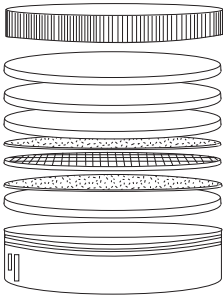
**CT:** Singulated die in tray (waffle) pack.

(example: CP211-PART NUMBER-CT)

**CM:** Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes).

(example: CP211-PART NUMBER-CM)

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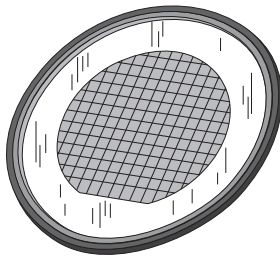


### UNSAWN WAFER

**WN:** Full wafer, unsawn, 100% tested with reject die inked.

(example: CP211-PART NUMBER-WN)

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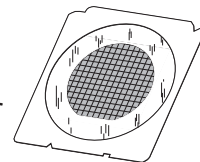


### SAWN WAFER ON PLASTIC RING

**WR:** Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications:  
[www.centrasemi.com/bdspecs](http://www.centrasemi.com/bdspecs)

R2 (3-April 2017)

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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### CONTACT US

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