

# **Unit Orientation in Carrier**



The diagrams are provided for illustrative purposes only. Please note that the actual unit orientation in carrier may vary depending on package size, type and pin count. Cypress is in compliance with EIA Standard 481. Should you have any other concerns and questions, feel free to contact your local CY sales representative.



## Unit Orientation in Tape and Reel







#### 1 sided sprocket hole illustration



#### 2 sided sprocket hole illustration



#### Note:

Circle sprocket hole is used as the pin 1 orientation reference.

#### **Carrier Taped used:**

- 12 mm 1 sided sprocket hole (with sprocket holes)
- 16 mm 1 sided sprocket hole (with sprocket holes)
- 24 mm 1 sided sprocket hole (with sprocket holes)
- 32 mm 2 sided sprocket hole (with sprocket holes and oblong holes at the other side)
- 44 mm 2 sided sprocket hole (with sprocket holes and oblong holes at the other side)





O Pin 1



# **Unit Orientation in Tray**







Corner flat on package same corner flat on tray

Pin-1 location depends on pin count . TSOP's pin 1 package varies according to its pin count. TSOP 44 is on bottom, TSOP 28 / 32 is on middle, and TSOP 48 is the top most part.

# **Unit Orientation in Tray**







### **Unit Orientation in Tube**



### **CERQUADS/PLCC**

### C-DIP/SIDE BRAZE/P-DIP SOIC/SOJ/SSOP/TSSOP

LCC

**PGA** 

o o	o	⇔ PIN 1
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O PIN 1	O PIN 1	O PIN 1	

For 32 pin rectangular the orientation is:



### Note:

Pin one must be oriented in one direction within a tube regardless of tube mark direction.

## **Unit Orientation in Tube**



### CERPACKS/FLATPACKS/CQFP



#### Note:

Single notch side of carrier must be oriented in one direction within a tube regardless of tube mark direction.