

## TAPE AND REEL INFORMATION



### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



\*All dimensions are nominal

| Device            | Package Type | Package Drawing | Pins | SPQ  | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|-------------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| TMS320F28032PNTR  | LQFP         | PN              | 80   | 1000 | 330.0              | 24.4               | 16.0    | 16.0    | 2.0     | 24.0    | 24.0   | Q2            |
| TMS320F28034PAGQR | TQFP         | PAG             | 64   | 1500 | 330.0              | 24.4               | 13.0    | 13.0    | 1.5     | 16.0    | 24.0   | Q2            |
| TMS320F28035PAGTR | TQFP         | PAG             | 64   | 1500 | 330.0              | 24.4               | 13.0    | 13.0    | 1.5     | 16.0    | 24.0   | Q2            |
| TMS320F28035PNQR  | LQFP         | PN              | 80   | 1000 | 330.0              | 24.4               | 16.0    | 16.0    | 2.0     | 24.0    | 24.0   | Q2            |

## TAPE AND REEL BOX DIMENSIONS



\*All dimensions are nominal

| Device            | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|-------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| TMS320F28032PNTR  | LQFP         | PN              | 80   | 1000 | 367.0       | 367.0      | 55.0        |
| TMS320F28034PAGQR | TQFP         | PAG             | 64   | 1500 | 367.0       | 367.0      | 55.0        |
| TMS320F28035PAGTR | TQFP         | PAG             | 64   | 1500 | 367.0       | 367.0      | 55.0        |
| TMS320F28035PNQR  | LQFP         | PN              | 80   | 1000 | 367.0       | 367.0      | 55.0        |

**TRAY**


Chamfer on Tray corner indicates Pin 1 orientation of packed units.

\*All dimensions are nominal

| Device           | Package Name | Package Type | Pins | SPQ | Unit array matrix | Max temperature (°C) | L (mm) | W (mm) | K0 (µm) | P1 (mm) | CL (mm) | CW (mm) |
|------------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| TMS320F28030PAGQ | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28030PAGS | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28030PAGT | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28030PNQ  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28030PNS  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28030PNT  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28030RSHS | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28030RSHT | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28031PAGQ | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28031PAGS | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28031PAGT | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28031PNQ  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28031PNS  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28031PNT  | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28031RSHS | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28032PAGQ | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28032PAGS | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |

| Device             | Package Name | Package Type | Pins | SPQ | Unit array matrix | Max temperature (°C) | L (mm) | W (mm) | K0 (µm) | P1 (mm) | CL (mm) | CW (mm) |
|--------------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| TMS320F28032PAGT   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28032PNQ    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28032PNS    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28032PNT    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28032RSHS   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28032RSHT   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28033P1PAGS | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28033PAGQ   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28033PAGS   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28033PAGT   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28033PNQ    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28033PNS    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28033PNT    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28033RSHS   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28034PAGQ   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28034PAGS   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28034PAGT   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28034PNQ    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28034PNS    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28034PNT    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28034RSHS   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28034RSHT   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28035PAGQ   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28035PAGS   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28035PAGT   | PAG          | TQFP         | 64   | 160 | 8 x 20            | 150                  | 315    | 135.9  | 7620    | 15.2    | 13.1    | 13      |
| TMS320F28035PNQ    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28035PNS    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28035PNT    | PN           | LQFP         | 80   | 119 | 7 X 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| TMS320F28035RSHS   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |
| TMS320F28035RSHT   | RSH          | VQFN         | 56   | 260 | 26 x 10           | 150                  | 315    | 135.9  | 7620    | 11.8    | 10      | 10.35   |