

**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 |
|-----------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| MSP430F5418IPNR | LQFP         | PN              | 80   | 1000 | 330.0              | 24.4               | 15.0    | 15.0    | 2.1     | 20.0    | 24.0   | Q2            |
| MSP430F5419IPZR | LQFP         | PZ              | 100  | 1000 | 330.0              | 24.4               | 17.0    | 17.0    | 2.1     | 20.0    | 24.0   | Q2            |
| MSP430F5435IPNR | LQFP         | PN              | 80   | 1000 | 330.0              | 24.4               | 15.0    | 15.0    | 2.1     | 20.0    | 24.0   | Q2            |
| MSP430F5436IPZR | LQFP         | PZ              | 100  | 1000 | 330.0              | 24.4               | 17.0    | 17.0    | 2.1     | 20.0    | 24.0   | Q2            |
| MSP430F5437IPNR | LQFP         | PN              | 80   | 1000 | 330.0              | 24.4               | 15.0    | 15.0    | 2.1     | 20.0    | 24.0   | Q2            |
| MSP430F5438IPZR | LQFP         | PZ              | 100  | 1000 | 330.0              | 24.4               | 17.0    | 17.0    | 2.1     | 20.0    | 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) |
|-----------------|--------------|-----------------|------|------|-------------|------------|-------------|
| MSP430F5418IPNR | LQFP         | PN              | 80   | 1000 | 350.0       | 350.0      | 43.0        |
| MSP430F5419IPZR | LQFP         | PZ              | 100  | 1000 | 350.0       | 350.0      | 43.0        |
| MSP430F5435IPNR | LQFP         | PN              | 80   | 1000 | 350.0       | 350.0      | 43.0        |
| MSP430F5436IPZR | LQFP         | PZ              | 100  | 1000 | 350.0       | 350.0      | 43.0        |
| MSP430F5437IPNR | LQFP         | PN              | 80   | 1000 | 350.0       | 350.0      | 43.0        |
| MSP430F5438IPZR | LQFP         | PZ              | 100  | 1000 | 350.0       | 350.0      | 43.0        |

**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) |
|----------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| MSP430F5418IPN | PN           | LQFP         | 80   | 119 | 7 x 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| MSP430F5419IPZ | PZ           | LQFP         | 100  | 90  | 6 x 15            | 150                  | 315    | 135.9  | 7620    | 20.3    | 15.4    | 15.45   |
| MSP430F5435IPN | PN           | LQFP         | 80   | 119 | 7 x 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| MSP430F5436IPZ | PZ           | LQFP         | 100  | 90  | 6 x 15            | 150                  | 315    | 135.9  | 7620    | 20.3    | 15.4    | 15.45   |
| MSP430F5437IPN | PN           | LQFP         | 80   | 119 | 7 x 17            | 150                  | 315    | 135.9  | 7620    | 17.9    | 14.3    | 13.95   |
| MSP430F5438IPZ | PZ           | LQFP         | 100  | 90  | 6 x 15            | 150                  | 315    | 135.9  | 7620    | 20.3    | 15.4    | 15.45   |