

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 |
|-------------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| MSP430FR5887IPMR | LQFP | PM | 64 | 1000 | 330.0 | 24.4 | 13.0 | 13.0 | 2.1 | 16.0 | 24.0 | Q2 |
| MSP430FR5887IRGCR | VQFN | RGC | 64 | 2000 | 330.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5887IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5888IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5889IPMR | LQFP | PM | 64 | 1000 | 330.0 | 24.4 | 13.0 | 13.0 | 2.1 | 16.0 | 24.0 | Q2 |
| MSP430FR5889IRGCR | VQFN | RGC | 64 | 2000 | 330.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5889IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR68891IPNR | LQFP | PN | 80 | 1000 | 330.0 | 24.4 | 15.0 | 15.0 | 2.1 | 20.0 | 24.0 | Q2 |
| MSP430FR68891IPZR | LQFP | PZ | 100 | 1000 | 330.0 | 24.4 | 17.0 | 17.0 | 2.1 | 20.0 | 24.0 | Q2 |
| MSP430FR6889IPNR | LQFP | PN | 80 | 1000 | 330.0 | 24.4 | 15.0 | 15.0 | 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) |
|-------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| MSP430FR5887IPMR | LQFP | PM | 64 | 1000 | 350.0 | 350.0 | 43.0 |
| MSP430FR5887IRGCR | VQFN | RGC | 64 | 2000 | 367.0 | 367.0 | 38.0 |
| MSP430FR5887IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR5888IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR5889IPMR | LQFP | PM | 64 | 1000 | 350.0 | 350.0 | 43.0 |
| MSP430FR5889IRGCR | VQFN | RGC | 64 | 2000 | 367.0 | 367.0 | 38.0 |
| MSP430FR5889IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR68891IPNR | LQFP | PN | 80 | 1000 | 350.0 | 350.0 | 43.0 |
| MSP430FR68891IPZR | LQFP | PZ | 100 | 1000 | 350.0 | 350.0 | 43.0 |
| MSP430FR6889IPNR | LQFP | PN | 80 | 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) |
|------------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| MSP430FR5887IPM | PM | LQFP | 64 | 160 | 8 x 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR5888IPM | PM | LQFP | 64 | 160 | 8 x 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR58891IPM | PM | LQFP | 64 | 160 | 8 x 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR5889IPM | PM | LQFP | 64 | 160 | 8 x 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR6887IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |
| MSP430FR6887IPZ | PZ | LQFP | 100 | 90 | 6 x 15 | 150 | 315 | 135.9 | 7620 | 20.3 | 15.4 | 15.45 |
| MSP430FR6888IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |
| MSP430FR6888IPZ | PZ | LQFP | 100 | 90 | 6 x 15 | 150 | 315 | 135.9 | 7620 | 20.3 | 15.4 | 15.45 |
| MSP430FR68891IPZ | PZ | LQFP | 100 | 90 | 6 x 15 | 150 | 315 | 135.9 | 7620 | 20.3 | 15.4 | 15.45 |
| MSP430FR6889IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |
| MSP430FR6889IPZ | PZ | LQFP | 100 | 90 | 6 x 15 | 150 | 315 | 135.9 | 7620 | 20.3 | 15.4 | 15.45 |