

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 |
|--------------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| MSP430FR5041IPMR | LQFP | PM | 64 | 1000 | 330.0 | 24.4 | 13.0 | 13.0 | 2.1 | 16.0 | 24.0 | Q2 |
| MSP430FR5041IRGCR | VQFN | RGC | 64 | 2000 | 330.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5041IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR50431IPMR | LQFP | PM | 64 | 1000 | 330.0 | 24.4 | 13.0 | 13.0 | 2.1 | 16.0 | 24.0 | Q2 |
| MSP430FR50431IRGCR | VQFN | RGC | 64 | 2000 | 330.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR50431IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5043IPMR | LQFP | PM | 64 | 1000 | 330.0 | 24.4 | 13.0 | 13.0 | 2.1 | 16.0 | 24.0 | Q2 |
| MSP430FR5043IRGCR | VQFN | RGC | 64 | 2000 | 330.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR5043IRGCT | VQFN | RGC | 64 | 250 | 180.0 | 16.4 | 9.3 | 9.3 | 1.1 | 12.0 | 16.0 | Q2 |
| MSP430FR6043IPNR | 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) |
|--------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| MSP430FR5041IPMR | LQFP | PM | 64 | 1000 | 336.6 | 336.6 | 41.3 |
| MSP430FR5041IRGCR | VQFN | RGC | 64 | 2000 | 367.0 | 367.0 | 38.0 |
| MSP430FR5041IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR50431IPMR | LQFP | PM | 64 | 1000 | 336.6 | 336.6 | 41.3 |
| MSP430FR50431IRGCR | VQFN | RGC | 64 | 2000 | 367.0 | 367.0 | 38.0 |
| MSP430FR50431IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR5043IPMR | LQFP | PM | 64 | 1000 | 336.6 | 336.6 | 41.3 |
| MSP430FR5043IRGCR | VQFN | RGC | 64 | 2000 | 367.0 | 367.0 | 38.0 |
| MSP430FR5043IRGCT | VQFN | RGC | 64 | 250 | 210.0 | 185.0 | 35.0 |
| MSP430FR6043IPNR | 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) |
|------------------|--------------|--------------|------|-----|-------------------|----------------------|--------|--------|---------|---------|---------|---------|
| MSP430FR5041IPM | PM | LQFP | 64 | 160 | 8 X 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR50431IPM | PM | LQFP | 64 | 160 | 8 X 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR5043IPM | PM | LQFP | 64 | 160 | 8 X 20 | 150 | 315 | 135.9 | 7620 | 15.2 | 13.1 | 13 |
| MSP430FR6041IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |
| MSP430FR60431IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |
| MSP430FR6043IPN | PN | LQFP | 80 | 119 | 7 x 17 | 150 | 315 | 135.9 | 7620 | 17.9 | 14.3 | 13.95 |