

## 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
MSP430FR2153TDBTR	TSSOP	DBT	38	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430FR2153TPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430FR2153TRHAR	VQFN	RHA	40	2500	330.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2153TRHAT	VQFN	RHA	40	250	180.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2153TRSMR	VQFN	RSM	32	3000	330.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2153TRSMT	VQFN	RSM	32	250	180.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2155TDBTR	TSSOP	DBT	38	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430FR2155TPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430FR2155TRHAR	VQFN	RHA	40	2500	330.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2155TRHAT	VQFN	RHA	40	250	180.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2155TRSMR	VQFN	RSM	32	3000	330.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2155TRSMT	VQFN	RSM	32	250	180.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2353TDBTR	TSSOP	DBT	38	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430FR2353TPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430FR2353TRHAR	VQFN	RHA	40	2500	330.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2353TRHAT	VQFN	RHA	40	250	180.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2

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
MSP430FR2353TRSMR	VQFN	RSM	32	3000	330.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2353TRSMT	VQFN	RSM	32	250	180.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2355TDBTR	TSSOP	DBT	38	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430FR2355TPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430FR2355TRHAR	VQFN	RHA	40	2500	330.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2355TRHAT	VQFN	RHA	40	250	180.0	16.4	6.3	6.3	1.1	12.0	16.0	Q2
MSP430FR2355TRSMR	VQFN	RSM	32	3000	330.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2
MSP430FR2355TRSMT	VQFN	RSM	32	250	180.0	12.4	4.25	4.25	1.15	8.0	12.0	Q2

**TAPE AND REEL BOX DIMENSIONS**


\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430FR2153TDBTR	TSSOP	DBT	38	2000	350.0	350.0	43.0
MSP430FR2153TPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSP430FR2153TRHAR	VQFN	RHA	40	2500	367.0	367.0	35.0
MSP430FR2153TRHAT	VQFN	RHA	40	250	210.0	185.0	35.0
MSP430FR2153TRSMR	VQFN	RSM	32	3000	367.0	367.0	35.0
MSP430FR2153TRSMT	VQFN	RSM	32	250	210.0	185.0	35.0
MSP430FR2155TDBTR	TSSOP	DBT	38	2000	350.0	350.0	43.0
MSP430FR2155TPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSP430FR2155TRHAR	VQFN	RHA	40	2500	367.0	367.0	35.0
MSP430FR2155TRHAT	VQFN	RHA	40	250	210.0	185.0	35.0
MSP430FR2155TRSMR	VQFN	RSM	32	3000	367.0	367.0	35.0
MSP430FR2155TRSMT	VQFN	RSM	32	250	210.0	185.0	35.0
MSP430FR2353TDBTR	TSSOP	DBT	38	2000	350.0	350.0	43.0
MSP430FR2353TPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSP430FR2353TRHAR	VQFN	RHA	40	2500	367.0	367.0	35.0
MSP430FR2353TRHAT	VQFN	RHA	40	250	210.0	185.0	35.0
MSP430FR2353TRSMR	VQFN	RSM	32	3000	367.0	367.0	35.0
MSP430FR2353TRSMT	VQFN	RSM	32	250	210.0	185.0	35.0

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430FR2355TDBTR	TSSOP	DBT	38	2000	350.0	350.0	43.0
MSP430FR2355TPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSP430FR2355TRHAR	VQFN	RHA	40	2500	367.0	367.0	35.0
MSP430FR2355TRHAT	VQFN	RHA	40	250	210.0	185.0	35.0
MSP430FR2355TRSMR	VQFN	RSM	32	3000	367.0	367.0	35.0
MSP430FR2355TRSMT	VQFN	RSM	32	250	210.0	185.0	35.0

**TUBE**


\*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
MSP430FR2153TDBT	DBT	TSSOP	38	50	530	10.2	3600	3.5
MSP430FR2155TDBT	DBT	TSSOP	38	50	530	10.2	3600	3.5
MSP430FR2353TDBT	DBT	TSSOP	38	50	530	10.2	3600	3.5
MSP430FR2355TDBT	DBT	TSSOP	38	50	530	10.2	3600	3.5

**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)
MSP430FR2153TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2153TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2155TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2155TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2353TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2353TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2355TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430FR2355TPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25