

**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
MSP430FR2310IPW16R	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
MSP430FR2310IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
MSP430FR2310IRGYR	VQFN	RGY	16	3000	330.0	12.4	3.8	4.3	1.5	8.0	12.0	Q1
MSP430FR2310IRGYT	VQFN	RGY	16	250	180.0	12.4	3.8	4.3	1.5	8.0	12.0	Q1
MSP430FR2311IPW16R	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
MSP430FR2311IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
MSP430FR2311IRGYR	VQFN	RGY	16	3000	330.0	12.4	3.8	4.3	1.5	8.0	12.0	Q1
MSP430FR2311IRGYT	VQFN	RGY	16	250	180.0	12.4	3.8	4.3	1.5	8.0	12.0	Q1

**TAPE AND REEL BOX DIMENSIONS**


\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430FR2310IPW16R	TSSOP	PW	16	2000	350.0	350.0	43.0
MSP430FR2310IPW20R	TSSOP	PW	20	2000	350.0	350.0	43.0
MSP430FR2310IRGYR	VQFN	RGY	16	3000	346.0	346.0	33.0
MSP430FR2310IRGYT	VQFN	RGY	16	250	210.0	185.0	35.0
MSP430FR2311IPW16R	TSSOP	PW	16	2000	350.0	350.0	43.0
MSP430FR2311IPW20R	TSSOP	PW	20	2000	350.0	350.0	43.0
MSP430FR2311IRGYR	VQFN	RGY	16	3000	346.0	346.0	33.0
MSP430FR2311IRGYT	VQFN	RGY	16	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)
MSP430FR2310IPW16	PW	TSSOP	16	90	530	10.2	3600	3.5
MSP430FR2310IPW16.A	PW	TSSOP	16	90	530	10.2	3600	3.5
MSP430FR2310IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430FR2310IPW20.A	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430FR2311IPW16	PW	TSSOP	16	90	530	10.2	3600	3.5
MSP430FR2311IPW16.A	PW	TSSOP	16	90	530	10.2	3600	3.5
MSP430FR2311IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430FR2311IPW20.A	PW	TSSOP	20	70	530	10.2	3600	3.5