

## 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
MSP430I2020TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430I2020TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2020TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2020TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2020TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2021TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430I2021TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2021TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2021TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2021TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2030TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430I2030TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2030TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2030TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2030TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2031TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1

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
MSP430I2031TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2031TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2031TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2040TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430I2040TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2040TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2040TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2041TPWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430I2041TRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430I2041TRHBT	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	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)
MSP430I2020TPWR	TSSOP	PW	28	2000	350.0	350.0	43.0
MSP430I2020TRHBR	VQFN	RHB	32	3000	346.0	346.0	33.0
MSP430I2020TRHBR	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430I2020TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2020TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2021TPWR	TSSOP	PW	28	2000	367.0	367.0	38.0
MSP430I2021TRHBR	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430I2021TRHBR	VQFN	RHB	32	3000	346.0	346.0	33.0
MSP430I2021TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2021TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2030TPWR	TSSOP	PW	28	2000	350.0	350.0	43.0
MSP430I2030TRHBR	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430I2030TRHBR	VQFN	RHB	32	3000	346.0	346.0	33.0
MSP430I2030TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2030TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2031TPWR	TSSOP	PW	28	2000	350.0	350.0	43.0
MSP430I2031TRHBR	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430I2031TRHBR	VQFN	RHB	32	3000	346.0	346.0	33.0

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430I2031TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2031TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2040TPWR	TSSOP	PW	28	2000	350.0	350.0	43.0
MSP430I2040TRHBR	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430I2040TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2040TRHBT	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430I2041TPWR	TSSOP	PW	28	2000	350.0	350.0	43.0
MSP430I2041TRHBR	VQFN	RHB	32	3000	346.0	346.0	33.0
MSP430I2041TRHBT	VQFN	RHB	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)
MSP430I2020TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2020TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2021TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2021TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2030TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2030TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2031TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2031TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2040TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2040TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2041TPW	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430I2041TPW.Z	PW	TSSOP	28	50	530	10.2	3600	3.5