

**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
MSP430G2203IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
MSP430G2203IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2203IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2233IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
MSP430G2233IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2233IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2233IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2303IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
MSP430G2303IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2303IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2303IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2333IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
MSP430G2333IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2333IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2333IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2403IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	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
MSP430G2403IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2403IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2403IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2433IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
MSP430G2433IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2433IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2433IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2533IPW20R	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
MSP430G2533IPW28R	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1
MSP430G2533IRHB32R	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSP430G2533IRHB32T	VQFN	RHB	32	250	180.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2

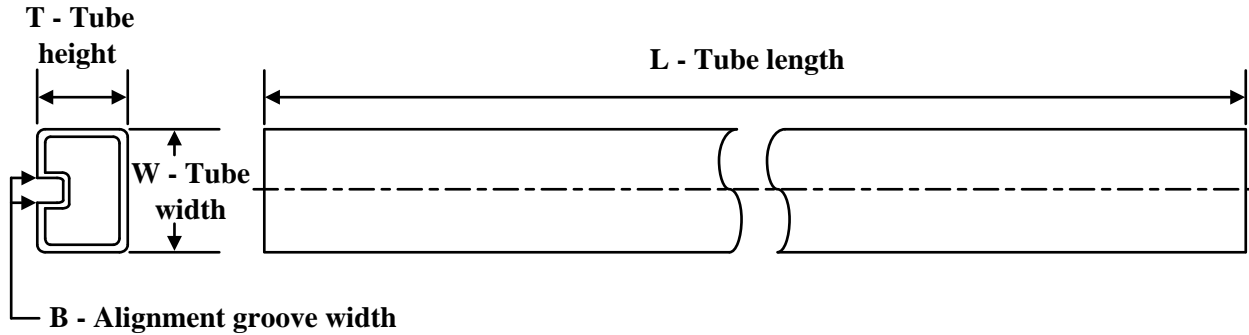
**TAPE AND REEL BOX DIMENSIONS**


\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430G2203IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2203IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2203IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2233IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2233IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2233IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2233IRHB32T	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430G2303IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2303IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2303IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2303IRHB32T	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430G2333IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2333IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2333IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2333IRHB32T	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430G2403IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2403IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2403IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430G2403IRHB32T	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430G2433IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2433IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2433IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2433IRHB32T	VQFN	RHB	32	250	210.0	185.0	35.0
MSP430G2533IPW20R	TSSOP	PW	20	2000	356.0	356.0	35.0
MSP430G2533IPW28R	TSSOP	PW	28	2000	356.0	356.0	35.0
MSP430G2533IRHB32R	VQFN	RHB	32	3000	367.0	367.0	35.0
MSP430G2533IRHB32T	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)
MSP430G2203IN20	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2203IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2203IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2203IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2203IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2203IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2203IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2203IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2203IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2203IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2233IN20	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2233IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2233IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2233IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2233IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2233IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2233IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2233IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2233IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2233IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2303IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2303IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2303IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2303IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2303IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2303IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2303IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2303IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2333IN20	N	PDIP	20	20	506	13.97	11230	4.32

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
MSP430G2333IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2333IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2333IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2333IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2333IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2333IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2333IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2333IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2333IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2403IN20	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2403IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2403IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2403IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2403IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2403IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2403IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2403IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2403IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2403IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2433IN20	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2433IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2433IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2433IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2433IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2433IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2433IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2433IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2433IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2433IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2533IN20	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2533IN20.Z	N	PDIP	20	20	506	13.97	11230	4.32
MSP430G2533IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2533IPW20	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2533IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2533IPW20.Z	PW	TSSOP	20	70	530	10.2	3600	3.5
MSP430G2533IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2533IPW28	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2533IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5
MSP430G2533IPW28.Z	PW	TSSOP	28	50	530	10.2	3600	3.5