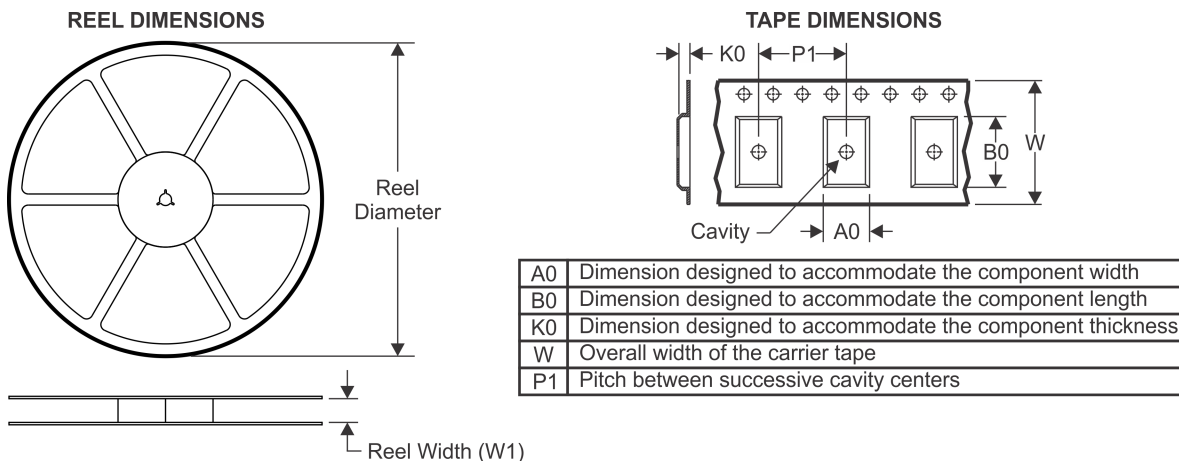


TAPE AND REEL INFORMATION



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
MSP430F5513IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5513IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5514IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5514IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5514IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5515IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5517IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5519IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5521IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5522IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5522IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5522IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	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
MSP430F5522IZXHR	NFBGA	ZXH	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5524IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5524IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5524IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5524IZXHR	NFBGA	ZXH	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5525IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5526IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5526IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5526IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5527IPNR	LQFP	PN	80	1000	330.0	24.4	15.0	15.0	2.1	20.0	24.0	Q2
MSP430F5528IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5528IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5528IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5529IPNR	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)
MSP430F5513IRGCR	VQFN	RGC	64	2000	853.0	449.0	35.0
MSP430F5513IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5514IRGCR	VQFN	RGC	64	2000	367.0	367.0	38.0
MSP430F5514IRGCT	VQFN	RGC	64	250	210.0	185.0	35.0
MSP430F5514IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5515IPNR	LQFP	PN	80	1000	350.0	350.0	43.0
MSP430F5517IPNR	LQFP	PN	80	1000	350.0	350.0	43.0
MSP430F5519IPNR	LQFP	PN	80	1000	350.0	350.0	43.0
MSP430F5521IPNR	LQFP	PN	80	1000	350.0	350.0	43.0
MSP430F5522IRGCR	VQFN	RGC	64	2000	367.0	367.0	38.0
MSP430F5522IRGCT	VQFN	RGC	64	250	210.0	185.0	35.0
MSP430F5522IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5522IZXHR	NFBGA	ZXH	80	2500	350.0	350.0	43.0
MSP430F5524IRGCR	VQFN	RGC	64	2000	367.0	367.0	38.0
MSP430F5524IRGCT	VQFN	RGC	64	250	210.0	185.0	35.0
MSP430F5524IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5524IZXHR	NFBGA	ZXH	80	2500	350.0	350.0	43.0
MSP430F5525IPNR	LQFP	PN	80	1000	350.0	350.0	43.0

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430F5526IRGCR	VQFN	RGC	64	2000	853.0	449.0	35.0
MSP430F5526IRGCT	VQFN	RGC	64	250	210.0	185.0	35.0
MSP430F5526IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5527IPNR	LQFP	PN	80	1000	350.0	350.0	43.0
MSP430F5528IRGCR	VQFN	RGC	64	2000	367.0	367.0	38.0
MSP430F5528IRGCT	VQFN	RGC	64	250	210.0	185.0	35.0
MSP430F5528IZQER	BGA MICROSTAR JUNIOR	ZQE	80	2500	350.0	350.0	43.0
MSP430F5529IPNR	LQFP	PN	80	1000	350.0	350.0	43.0