

## 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
MSP430F5500IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5500IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5501IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5501IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5502IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5502IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5503IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5503IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5504IPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430F5504IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5504IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5505IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5505IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5506IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5506IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5507IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	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
MSP430F5507IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5508IPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430F5508IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5508IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5508IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5508IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5509IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5509IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5509IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5509IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5509IZXHR	NFBGA	ZXH	80	2500	330.0	12.4	5.3	5.3	1.5	8.0	12.0	Q1
MSP430F5510IPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430F5510IPTRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSP430F5510IRGCR	VQFN	RGC	64	2000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5510IRGCT	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5510IRGCTG4	VQFN	RGC	64	250	180.0	16.4	9.3	9.3	1.5	12.0	16.0	Q2
MSP430F5510IRGZR	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5510IRGZRG4	VQFN	RGZ	48	2500	330.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5510IRGZT	VQFN	RGZ	48	250	180.0	16.4	7.3	7.3	1.5	12.0	16.0	Q2
MSP430F5510IZXHR	NFBGA	ZXH	80	2500	330.0	12.4	5.3	5.3	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)
MSP430F5500IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5500IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5501IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5501IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5502IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5502IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5503IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5503IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5504IPTR	LQFP	PT	48	1000	350.0	350.0	43.0
MSP430F5504IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5504IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5505IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5505IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5506IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5506IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5507IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5507IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5508IPTR	LQFP	PT	48	1000	350.0	350.0	43.0

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSP430F5508IRGCR	VQFN	RGC	64	2000	353.0	353.0	32.0
MSP430F5508IRGCT	VQFN	RGC	64	250	213.0	191.0	35.0
MSP430F5508IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5508IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5509IRGCR	VQFN	RGC	64	2000	353.0	353.0	32.0
MSP430F5509IRGCT	VQFN	RGC	64	250	213.0	191.0	35.0
MSP430F5509IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5509IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5509IZXHR	NFBGA	ZXH	80	2500	350.0	350.0	43.0
MSP430F5510IPTR	LQFP	PT	48	1000	350.0	350.0	43.0
MSP430F5510IPTRG4	LQFP	PT	48	1000	350.0	350.0	43.0
MSP430F5510IRGCR	VQFN	RGC	64	2000	353.0	353.0	32.0
MSP430F5510IRGCT	VQFN	RGC	64	250	213.0	191.0	35.0
MSP430F5510IRGCTG4	VQFN	RGC	64	250	213.0	191.0	35.0
MSP430F5510IRGZR	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5510IRGZRG4	VQFN	RGZ	48	2500	353.0	353.0	32.0
MSP430F5510IRGZT	VQFN	RGZ	48	250	213.0	191.0	35.0
MSP430F5510IZXHR	NFBGA	ZXH	80	2500	350.0	350.0	43.0

**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)
MSP430F5504IPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5504IPT.B	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5508IPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5508IPT.B	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5508IZXH	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5508IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5508IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5508IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5509IPT.B	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5509IZXH	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IZXH	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IZXHR	ZXH	NFBGA	80	2500	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5509IZXHR.B	ZXH	NFBGA	80	2500	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IPT	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25

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)
MSP430F5510IPT.B	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25
MSP430F5510IZXH	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IZXH	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IZXH.B	ZXH	NFBGA	80	576	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IZXHR	ZXH	NFBGA	80	2500	16 x 36	150	315	135.9	7620	8.5	8.75	8.7
MSP430F5510IZXHR.B	ZXH	NFBGA	80	2500	16 x 36	150	315	135.9	7620	8.5	8.75	8.7