

**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
F280021PTQR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280021PTSR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280021PTSRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280023CPMSR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280023CPNSR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280023CPTSR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280023CPTSRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280023PMQR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280023PMSR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280023PNQR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280023PNSR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280023PTQR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280023PTSR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280023PTSRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025CPMQR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280025CPMSR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	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
F280025CPNQR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280025CPNSR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280025CPTQR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025CPTSR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025CPTSRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025PMQR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280025PMSR	LQFP	PM	64	1000	330.0	24.4	13.0	13.0	2.1	16.0	24.0	Q2
F280025PNQR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280025PNSR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
F280025PTQR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025PTSR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
F280025PTSRG4	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2

**TAPE AND REEL BOX DIMENSIONS**


\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
F280021PTQR	LQFP	PT	48	1000	336.6	336.6	31.8
F280021PTSR	LQFP	PT	48	1000	336.6	336.6	31.8
F280021PTSRG4	LQFP	PT	48	1000	336.6	336.6	31.8
F280023CPMSR	LQFP	PM	64	1000	336.6	336.6	41.3
F280023CPNSR	LQFP	PN	80	1000	367.0	367.0	55.0
F280023CPTSR	LQFP	PT	48	1000	336.6	336.6	31.8
F280023CPTSRG4	LQFP	PT	48	1000	336.6	336.6	31.8
F280023PMQR	LQFP	PM	64	1000	336.6	336.6	41.3
F280023PMSR	LQFP	PM	64	1000	336.6	336.6	41.3
F280023PNQR	LQFP	PN	80	1000	367.0	367.0	55.0
F280023PNSR	LQFP	PN	80	1000	367.0	367.0	55.0
F280023PTQR	LQFP	PT	48	1000	336.6	336.6	31.8
F280023PTSR	LQFP	PT	48	1000	336.6	336.6	31.8
F280023PTSRG4	LQFP	PT	48	1000	336.6	336.6	31.8
F280025CPMQR	LQFP	PM	64	1000	336.6	336.6	41.3
F280025CPMSR	LQFP	PM	64	1000	336.6	336.6	41.3
F280025CPNQR	LQFP	PN	80	1000	367.0	367.0	55.0
F280025CPNSR	LQFP	PN	80	1000	367.0	367.0	55.0

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
F280025CPTQR	LQFP	PT	48	1000	336.6	336.6	31.8
F280025CPTSR	LQFP	PT	48	1000	336.6	336.6	31.8
F280025CPTSRG4	LQFP	PT	48	1000	336.6	336.6	31.8
F280025PMQR	LQFP	PM	64	1000	336.6	336.6	41.3
F280025PMSR	LQFP	PM	64	1000	336.6	336.6	41.3
F280025PNQR	LQFP	PN	80	1000	367.0	367.0	55.0
F280025PNSR	LQFP	PN	80	1000	367.0	367.0	55.0
F280025PTQR	LQFP	PT	48	1000	336.6	336.6	31.8
F280025PTSR	LQFP	PT	48	1000	336.6	336.6	31.8
F280025PTSRG4	LQFP	PT	48	1000	336.6	336.6	31.8

**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)
F280025CPMS	PM	LQFP	64	160	8 X 20	150	315	135.9	7620	15.2	13.1	13
F280025PMS	PM	LQFP	64	160	8 X 20	150	315	135.9	7620	15.2	13.1	13
F280025PNS	PN	LQFP	80	119	7 X 17	150	315	135.9	7620	17.9	14.3	13.95
F280025PTS	PT	LQFP	48	250	10 x 25	150	315	135.9	7620	12.2	11.1	11.25