

**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
TMS320F28335ZJZQR	BGA	ZJZ	176	1000	330.0	24.4	15.25	15.25	2.6	20.0	24.0	Q1

**TAPE AND REEL BOX DIMENSIONS**


\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TMS320F28335ZJZQR	BGA	ZJZ	176	1000	336.6	336.6	41.3

**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)
TMS320F28232PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28232PTPQ	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28232PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28232ZAYA	ZAY	NFBGA	179	160	8 x 20	150	315	135.9	7620	15.4	11.2	19.65
TMS320F28234PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28234PTPQ	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28234PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28234ZAYA	ZAY	NFBGA	179	160	8 x 20	150	315	135.9	7620	15.4	11.2	19.65
TMS320F28234ZJZA	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28234ZJZQ	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28234ZJZS	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28235PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28235PTPQ	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28235PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28235ZJZA	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28235ZJZQ	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28235ZJZS	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35

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)
TMS320F28332PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28332PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28333PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28334PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28334PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28334ZAYA	ZAY	NFBGA	179	160	8 x 20	150	315	135.9	7620	15.4	11.2	19.65
TMS320F28334ZJZA	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28334ZJZS	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28335PGFA	PGF	LQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28335PTPQ	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28335PTPS	PTP	HLQFP	176	40	4x10	150	315	135.9	7620	20.7	30.4	20.7
TMS320F28335ZAYA	ZAY	NFBGA	179	160	8 x 20	150	315	135.9	7620	15.4	11.2	19.65
TMS320F28335ZJZA	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28335ZJZQ	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35
TMS320F28335ZJZS	ZJZ	BGA	176	126	7 X 18	150	315	135.9	7620	17.2	11.3	16.35