

Chapter 9 Package Outline, Tape & Reel Drawings, Package Marking

The USB3320 is offered in a compact 32 pin lead-free QFN package.

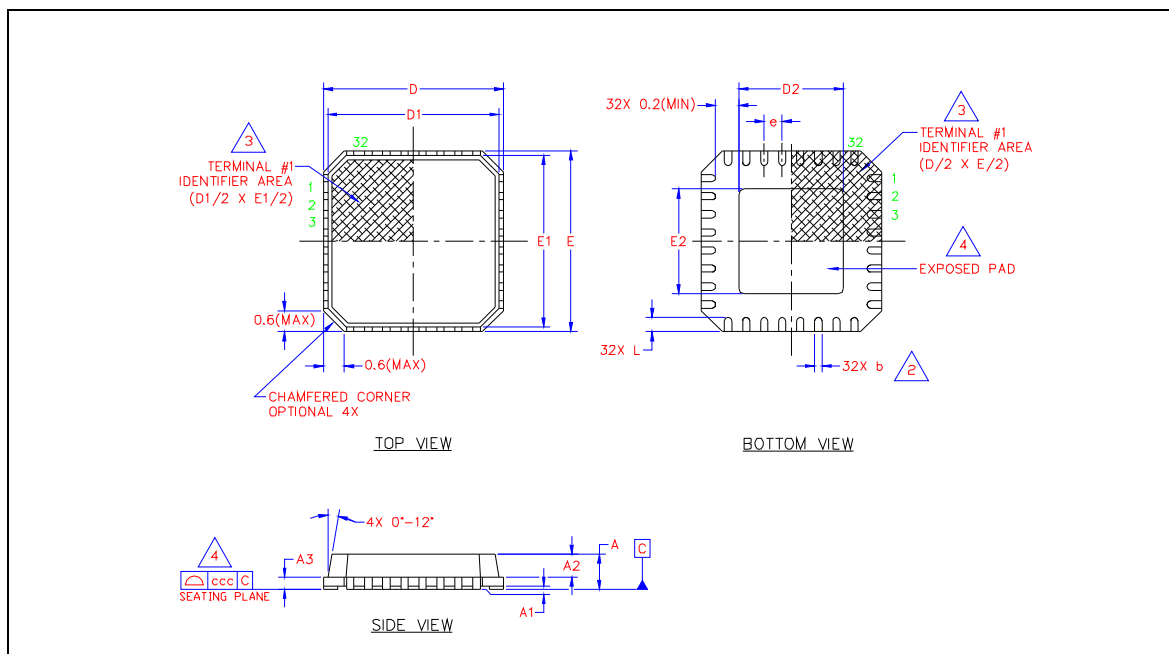


Figure 9.1 USB3320 32 Pin QFN Package Outline, 5 x 5 x 0.9 mm Body (Lead-Free)

Table 9.1 32 Terminal QFN Package Parameters

	MIN	NOMINAL	MAX	REMARKS
A	0.70	~	1.00	Overall Package Height
A1	0	0.02	0.05	Standoff
A2	~	~	0.90	Mold Thickness
A3	0.20 REF			Copper Lead-frame Substrate
D	4.85	5.0	5.15	X Overall Size
D1	4.55	~	4.95	X Mold Cap Size
D2	3.15	3.3	3.45	X exposed Pad Size
E	4.85	5.0	5.15	Y Overall Size
E1	4.55	~	4.95	Y Mold Cap Size
E2	3.15	3.3	3.45	Y exposed Pad Size
L	0.30	~	0.50	Terminal Length
e	0.50 BSC			Terminal Pitch
b	0.18	0.25	0.30	Terminal Width
ccc	~	~	0.08	Coplanarity

Notes:

- Controlling Unit: millimeter.
- Dimension b applies to plated terminals and is measured between 0.15mm and 0.30mm from the terminal tip. Tolerance on the true position of the leads is ± 0.05 mm at maximum material conditions (MMC).
- Details of terminal #1 identifier are optional but must be located within the zone indicated.
- Coplanarity zone applies to exposed pad and terminals.