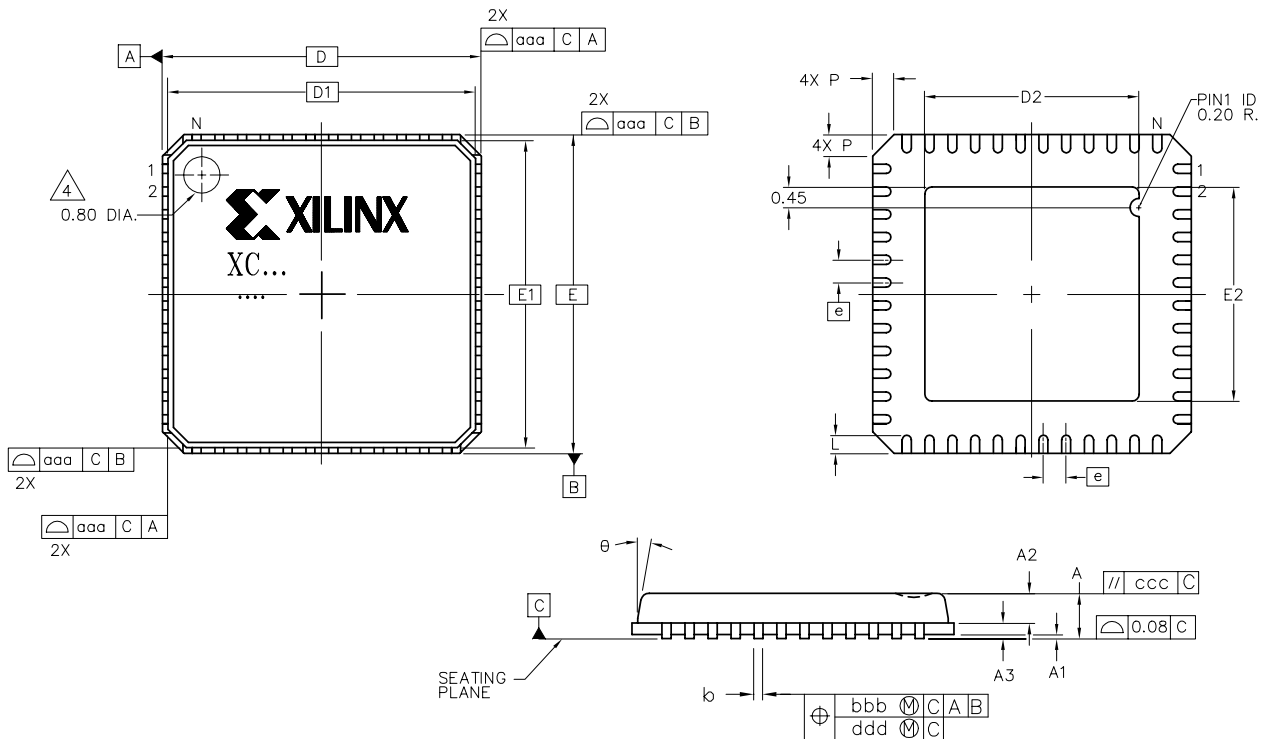


TOP VIEW

BOTTOM VIEW



SYMBOL	QFG32			QFG48		
	MILLIMETERS			MILLIMETERS		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.80	0.90	1.00	0.80	0.90	1.00
A <sub>1</sub>	0.00	0.02	0.05	0.00	0.02	0.05
A <sub>2</sub>	$\sim$	0.65	1.00	$\sim$	0.65	1.00
A <sub>3</sub>	0.20 REF			0.20 REF		
D/E	5.00 BSC			7.00 BSC		
D <sub>1</sub> /E <sub>1</sub>	4.75 BSC			6.75 BSC		
D <sub>2</sub> /E <sub>2</sub>	1.25	2.70	3.25	2.25	4.70	5.25
e	0.50 BSC.			0.50 BSC.		
L	0.30	0.40	0.50	0.30	0.40	0.50
b	0.18	0.25	0.30	0.18	0.25	0.30
θ	$\sim$	$\sim$	12°	$\sim$	$\sim$	12°
P	0.24	0.42	0.60	0.24	0.42	0.60
aaa	$\sim$	$\sim$	0.15	$\sim$	$\sim$	0.15
bbb	$\sim$	$\sim$	0.10	$\sim$	$\sim$	0.10
ccc	$\sim$	$\sim$	0.10	$\sim$	$\sim$	0.10
ddd	$\sim$	$\sim$	0.05	$\sim$	$\sim$	0.05
N	32			48		

**NOTES:**

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
2. THE TOP PACKAGE MAY BE SMALLER THAN THE BOTTOM PACKAGE BY 0.15mm.
3. CONFORMS TO JEDEC M0-220
4. MARK ORIENTATION WITH RESPECT TO PIN-1 I.D. IF 2 OR MORE CIRCLES EXIST ON TOP OF THE PACKAGE, USE THE SMALLEST CIRCLE AS PIN-1 I.D.
5. PLATING FINISH: 100% Matte Sn

32, 48 PIN – QUAD FLAT NO LEAD (QFG32, QFG48)