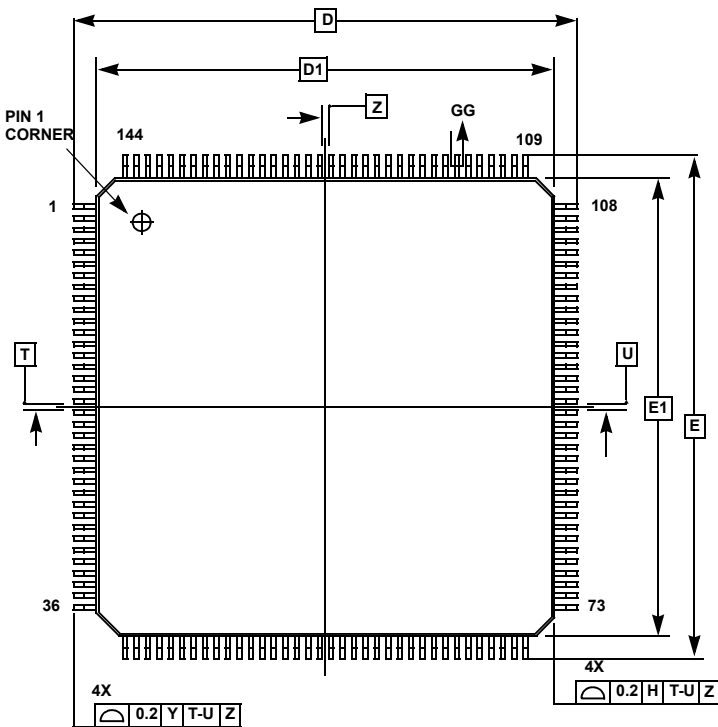


Low Plastic Quad Flatpack Package (LQFP)



Q144.20x20B

144 Lead Low Plastic Quad Flatpack Package

SYMBOL	MILLIMETERS			NOTES
	MIN	NOM	MAX	
A	-	-	1.60	
A1	0.05	-	0.15	
A2	1.35	1.40	1.45	
b	0.17	0.22	0.27	4
b1	0.17	0.20	0.23	
c	0.09	-	0.20	
c1	0.09	-	0.16	
D	22 BSC			
D1	20 BSC			3
E	22 BSC			
E1	20 BSC			3
L	0.45	0.60	0.75	
L1	1.00 REF			
R1	0.08	-	-	
R2	0.08	-	0.20	
S	0.20	-	-	
$\theta$	0°	3.5°	7.0°	
$\theta 1$	0°	-	-	
$\theta 2$	11°	12°	13°	
$\theta 3$	11°	12°	13°	
N	128			5
e	0.50 BSC			

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NOTES:

- Dimensions are in millimeters. Dimensions in ( ) for Reference Only.
- Dimensioning and tolerancing conform to AMSE Y14.5m-1994.
- Dimensions D1 and E1 are excluding mold protrusion. Allowable protrusion is 0.25mm per side. Dimensions D1 and E1 are inclusive of mold mismatch and determined by datum plane H.
- Dimension b does not include dambar protrusion. Allowable dambar protrusion shall not cause the lead width to exceed the maximum b dimension by more than 0.08mm. Dambar cannot be located at the lower radius or the foot. Minimum space between protrusion and an adjacent lead is 0.07mm.
- N is total number of the lead terminals.

