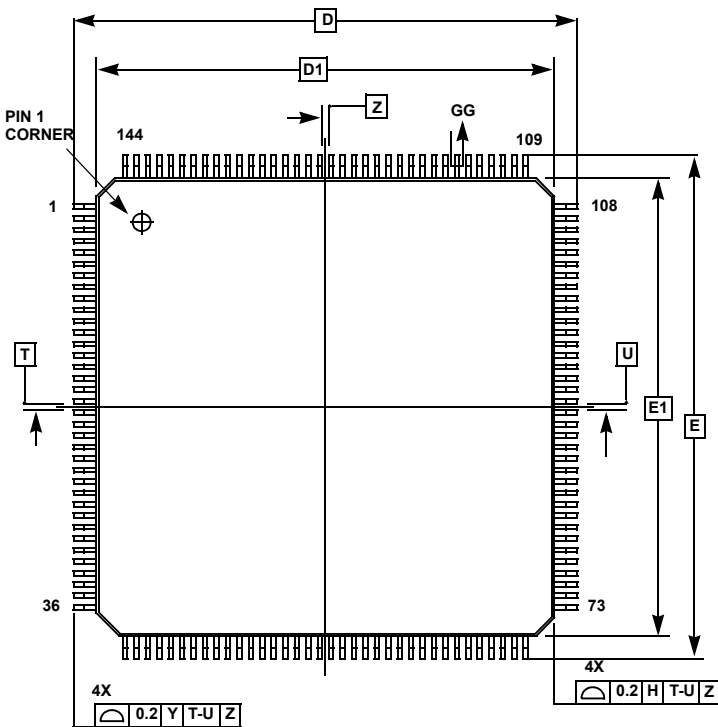


Low Plastic Quad Flatpack Package (LQFP)



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	-	-	
θ	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:

1. Dimensions are in millimeters. Dimensions in () for Reference Only.
2. Dimensioning and tolerancing conform to AMSE Y14.5m-1994.
3. 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.
4. 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.
5. N is total number of the lead terminals.

