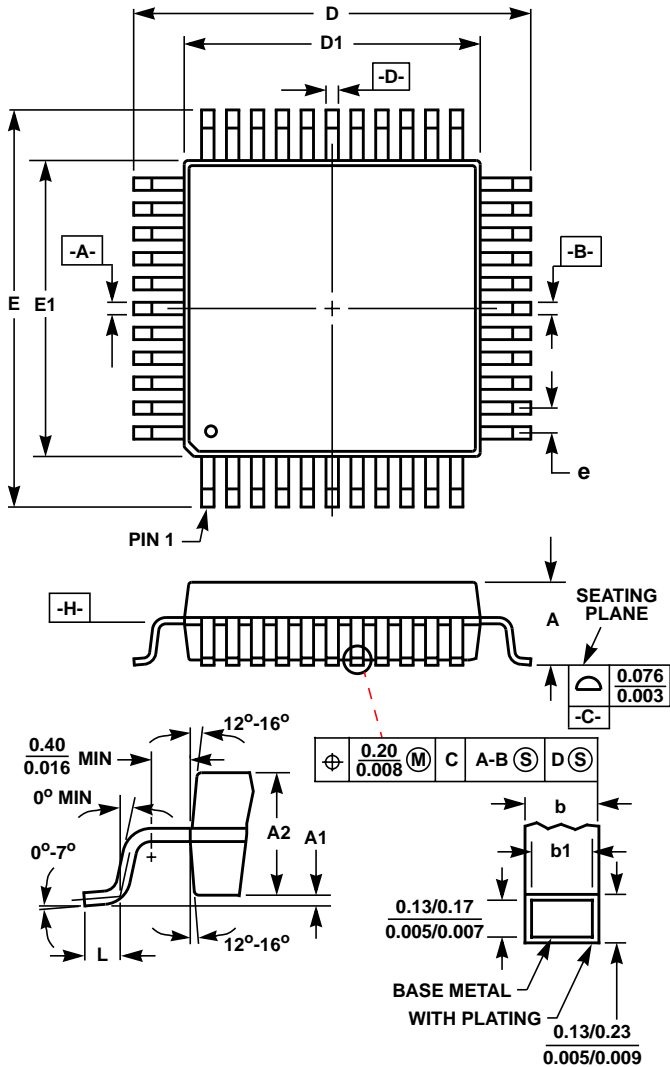


Metric Plastic Quad Flatpack Packages (MQFP)



**Q144.28x28 (JEDEC MS-022DC-1 ISSUE B)**  
**144 LEAD METRIC PLASTIC QUAD FLATPACK PACKAGE**

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	-	0.161	-	4.10	-
A1	0.010	-	0.25	-	-
A2	0.126	0.142	3.20	3.60	-
b	0.009	0.015	0.22	0.38	6
b1	0.009	0.013	0.22	0.33	-
D	1.223	1.233	31.08	31.32	3
D1	1.097	1.107	27.88	28.12	4, 5
E	1.224	1.232	31.10	31.30	3
E1	1.098	1.106	27.90	28.10	4, 5
L	0.029	0.040	0.73	1.03	-
N	144		144		7
e	0.026 BSC		0.65 BSC		-

Rev. 1 4/99

NOTES:

1. Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.
2. All dimensions and tolerances per ANSI Y14.5M-1982.
3. Dimensions D and E to be determined at seating plane **-C-**.
4. Dimensions D1 and E1 to be determined at datum plane **-H-**.
5. Dimensions D1 and E1 do not include mold protrusion. Allowable protrusion is 0.25mm (0.010 inch) per side.
6. Dimension b does not include dambar protrusion. Allowable dambar protrusion shall be 0.08mm (0.003 inch) total.
7. "N" is the number of terminal positions.