NOTES:

1. ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5-1982.
2. DATUM PLANE [-H-] LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
3. DATUMS [-A-] AND [-B-] TO BE DETERMINED AT CENTERLINE BETWEEN LEADS WHERE LEADS EXIT PLASTIC BODY AT DATUM PLANE [-H-] .
4. TO BE DETERMINED AT SEATING PLANE [-C-] .
5. DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS 0.254 MM ON D1 AND E1 DIMENSIONS.
6. "N" IS THE TOTAL NUMBER OF TERMINALS.
7. THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE [-H-] .
8. THE TOP OF PACKAGE IS SMALLER THAN THE BOTTOM OF PACKAGE BY 0.15 MILLIMETERS.
9. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
10. CONTROLLING DIMENSION: MILLIMETER.
11. MAXIMUM ALLOWABLE DIE THICKNESS TO BE ASSEMBLED IN THIS PACKAGE FAMILY IS 0.38 MILLIMETERS.
12. THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-026, VARIATION AEB, AEC, AED, & AEE (EXCEPT FOR 44 & 128 LEAD).
13. A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.
14. DIMENSION D2 AND E2 REPRESENT THE SIZE OF THE EXPOSED PAD. THE ACTUAL DIMENSIONS ARE SPECIFIED ON THE BONDING DIAGRAM, AND IS DEPENDENT ON THE DIE SIZE.
15. EXPOSED PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 0.05.
16. CORNER CHAMFER OF EXPOSED DIE PAD SHALL BE WITHIN 0.30 MM.

SYMBOL	ALL DIMENSIONS IN MILLIMETERS			
	AEA			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	44			
e	1.00 BSC.			
b	0.35	0.40	0.50	9
bt	0.35	0.40	0.45	
ccc	---	---	0.10	
ddd	---	---	0.20	

SYMBOL	JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS			
	AEB			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	64			
e	0.80 BSC.			
b	0.30	0.37	0.45	9
bt	0.30	0.35	0.40	
ccc	---	---	0.10	
ddd	---	---	0.20	

SYMBOL	JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS			
	AEC			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	80			
e	0.65 BSC.			
b	0.22	0.32	0.38	9
bt	0.22	0.30	0.33	
ccc	---	---	0.10	
ddd	---	---	0.13	

SYMBOL	JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS			
	AED			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	100			
e	0.50 BSC.			
b	0.17	0.22	0.27	9
bt	0.17	0.20	0.23	
ccc	---	---	0.08	
ddd	---	---	0.08	

SYMBOL	JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS			
	AEE			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	120			
e	0.40 BSC.			
b	0.13	0.18	0.23	9
bt	0.13	0.16	0.19	
ccc	---	---	0.08	
ddd	---	---	0.07	

SYMBOL	ALL DIMENSIONS IN MILLIMETERS			
	AEE			
	MIN.	NOM.	MAX.	NOTE
A	---	---	1.20	
A_1	0.05	---	0.15	13
A_2	0.95	1.00	1.05	
D	16.00 BSC.			4
D_1	14.00 BSC.			7,8
E	16.00 BSC.			4
E_1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	128			
e	0.40 BSC.			
b	0.13	0.18	0.23	9
bt	0.13	0.16	0.19	
ccc	---	---	0.08	
ddd	---	---	0.07	

M - INCREASE FROM 120LD BY 8 LEADS

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TITLE: PACKAGE OUTLINE, TQFP, 14X14 MM BODY, 1.00/0.10 MM FORM, 1.00 MM THICK (OPTIONAL ePAD)

SIZE	DWG NUMBER	REV
A3	32776	09

SCALE		SHEET
6:1	PRINTING IS SCALED TO FIT DO NOT SCALE DRAWING	2 OF 2

FORM NO. MDFORM2J.DWG