



PQFP (N)

TRAY DESIGNATOR

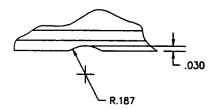
DETAIL $\sim K$



XXX°C MAX.

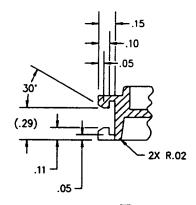
TEMP. RATING

DETAIL~B

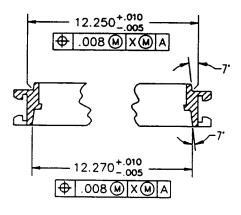


NOTE: SCALLOP IS CENTERED ON SIDE OF TRAY.

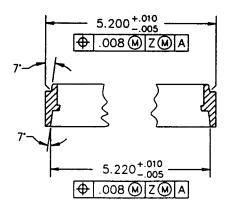
DETAIL~C (ROTATED 90° CCW)



 $\begin{array}{c} \text{DETAIL} \sim D \\ \text{(rotated 90° ccw)} \end{array}$



 $\frac{\text{SECTION} \sim H - H}{\text{(rotated 90° CCW)}}$



SECTION $\sim J - J$

TRAY STACKING DETAIL

FIGURE 2

ALL DIMENSIONS ARE IN INCHES

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NOTES:

/1 these surfaces to be free of seams.



CHAMFER DENOTES PACKAGE PIN 1 ORIENTATION.

3. TRAY VACUUM PICKUP METHOD ALLOWS TWO SEPARATE PICKUP AREAS, RESULTING IN TWO CLOSED CELLS PER TRAY. OPTIONAL VACUUM PICKUP CELL LOCATIONS ARE N4.



4 TRAY VACUUM PICKUP METHOD REQUIRES A WALLED PICKUP AREA, LOCATED AS CLOSE TO THE CENTER OF THE TRAY AS IS PRACTICAL. CENTER VACUUM PICKUP CELL LOCATIONS ARE N5.



 $\stackrel{/}{\sim}$ this scallop allows the use of a pin to MECHANICALLY BIAS THE TRAY ORIENTATION.



 $\stackrel{\frown}{6}$ the symbol n refers to package leadcount supported.

- 7. TOTAL USABLE CELLS $N3 = N1 \times N2$
- 8. PACKAGE INTERFACE CONTROLLED BY PACKAGE DESIGN AND LEAD FORM.
- 9. NON-TABULATED DIMENSIONS HAVE A TOLERANCE OF $.XX=\pm.01$, $.XXX=\pm.005$, ANGLES $\pm0.5^{\circ}$.
- 10. CONTROLLING DIMENSIONS ARE IN INCHES.
- 11. INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ANSI Y14.5M-1982.



XXX IS THE MAXIMUM OPERATING TEMPERATURE THE EMPTY TRAY CAN BE SUBJECTED TO FOR 48 CONTINUOUS HOURS WITHOUT VIOLATING THE DIMENSIONAL TOLERANCE OF THE TRAY.

13. DIMENSION M, M1, M2 AND M3 DEFINE THE CENTER LINES FOR THE CELL SITES.

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JEDEC Solid State Product Outline	TRAY FOR HANDLING AND SHIPPING OF PQFP PACKAGES	В	Jan 1993	CO-015	3 0 _F 5

VARIATION DIMENSIONS ARE IN INCHES NOTE! YMBOL INOTEI 1_NO^LE) A.A AB ACMIN. MAX NOM. MIN NOM. MAX MIN NOM. MAX 560 BSC M .618 BSC 701 BSC 13 13 13 .607 BSC 717 BSC M1 .706 BSC 13 13 13 799 BSC M2 13 914 BSC .999 BSC 13 13 705 BSC **M**3 823 BSC 987 BSC 13 13 13 Ν 52 6 68 84 6 6 N1 COLUMNS 6 COLUMNS 5 COLUMNS N2 15 ROWS 13 ROWS 12 ROWS N3 105 7 <u>78</u> 60 7 7 ROW/COLUMN [4/4], [12/4] N4 ROW/COLUMN [3/3], [10/3] ROW/COLUMN [3/3], [11/4] 3 3 3 ROW/COLUMN 8/4 N5 ROW/COLUMN 7/3 ROW/COLUMN [6/3] 4 4 **VARIATION** DIMENSIONS ARE IN INCHES NOTEI OTE I YMBOL OTE ! ADAE ΑF MĪN. NOM. MAX. MIN. NOM. MAX MIN. NOM. MAX. 701 BSC .824 BSC 13 1.161 BSC 13 13 M1 .750 BSC .944 BSC 13 .957 BSC 13 13 M2 1.090 BSC 314 BSC 1.498 BSC 13 13 13 **M**3 987 BSC 1.234 BSC 1.514 BSC 13 13 13 Ν 100 6 132 164 6 6 5 COLUMNS N1 COLUMNS COLUMNS N2 11 ROWS ROWS 8 ROWS N3 55 36 7 7 24 7 ROW/COLUMN [3/3], [9/3] N4 ROW/COLUMN [2/2], [8/3] ROW/COLUMN [2/2], [7/2] 3 3 3 ROW/COLUMN 6/3 N5 ROW/COLUMN [5/2] ROW/COLUMN 4/2 4 4 4 NOTE: 9,10,11 REF: 5-249 ISSUE: A SHT Date Issue Title: **JEDEC** TRAY FOR HANDLING 4 Solid State AND SHIPPING OF В Jan 1993 CO - 015٥ F Product Outline POFP PACKAGES

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		VARIATIO	N DIMENSIC	NS ARE	IN INCHE	S	
M M1 M2 M3 N N1 N2 N3 N4 N5	AG MIN. NOM. 1.030 B 1.064 B 1.712 B	MAX. SC 13 SC 13 SC 13 SC 13 SC 13 SC 7	AH MIN. NOM 1.668 E 1.205 E 1.998 E	3SC 3SC 3SC 3SC MNS 5	MIN	NOM.	MAX.
NOTE REF: ISSUE	5-249 E: A	VARIATIO			IN INCHES	5	N.
S _M B _O L	MIN. NOM.	MAX.	MIN. NOM	MAX.	MIN.	NOM.	MAX.
NOTE REF: ISSUE							
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