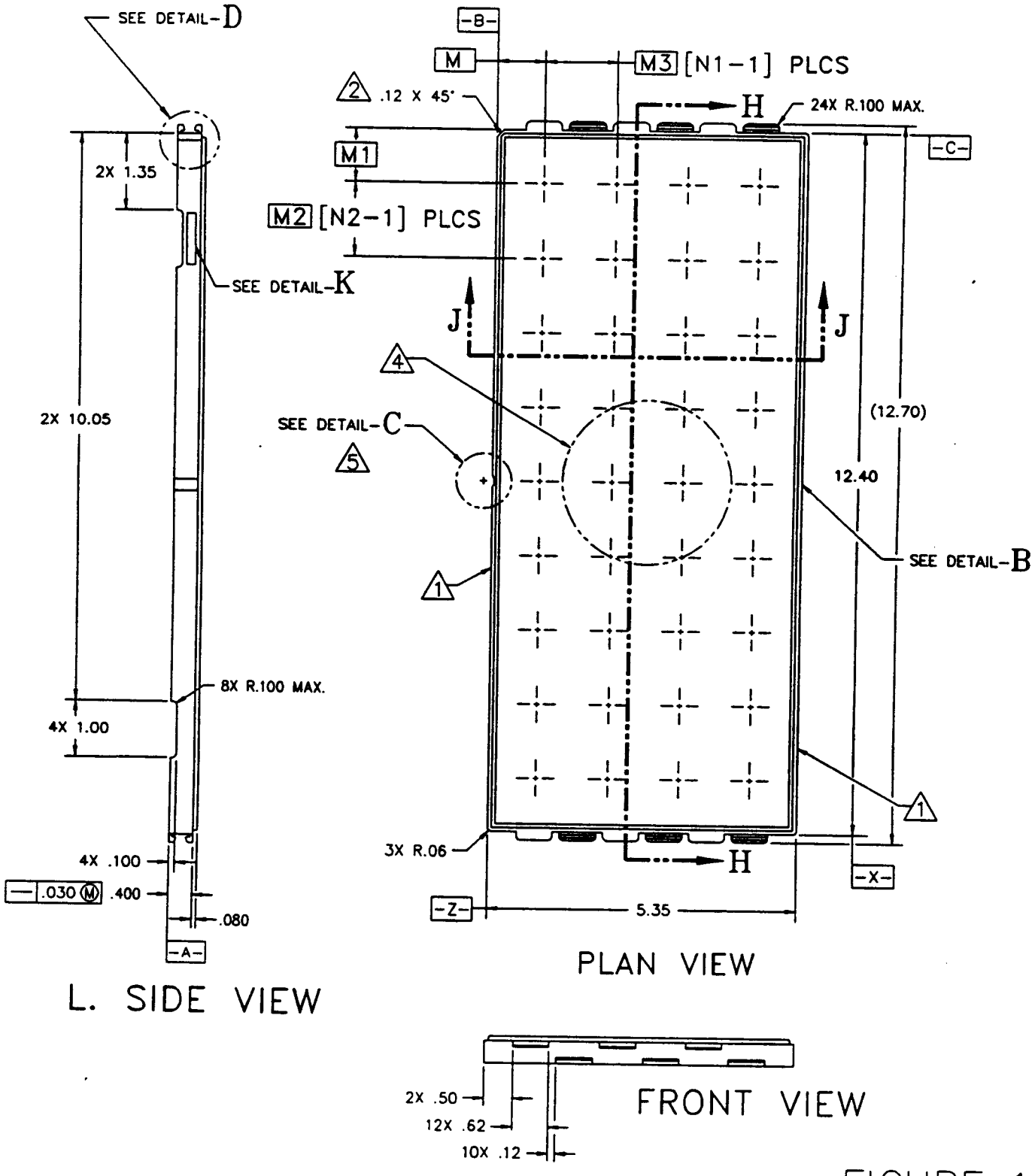


FIGURE 1

ALL DIMENSIONS ARE IN INCHES

EDEC Solid State Product Outline	TITLE: TRAY FOR HANDLING AND SHIPPING OF CQFP PACKAGES	Issue B	Date 11/92	CO-011	SHT 1 OF 4

CQFP XXX

TRAY DESIGNATOR

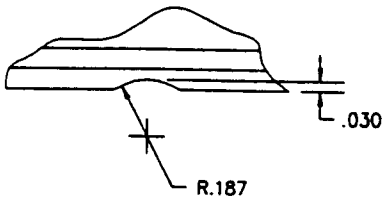
DETAIL~K

12

XXX°C MAX.

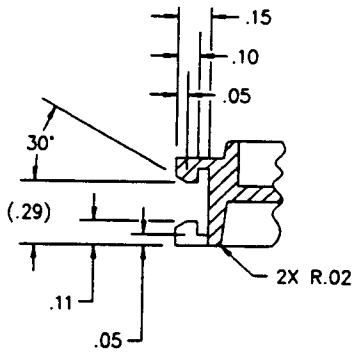
TEMP. RATING

DETAIL~B

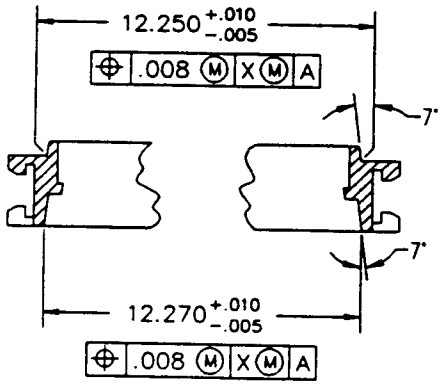


NOTE: SCALLOP IS CENTERED ON SIDE OF TRAY.

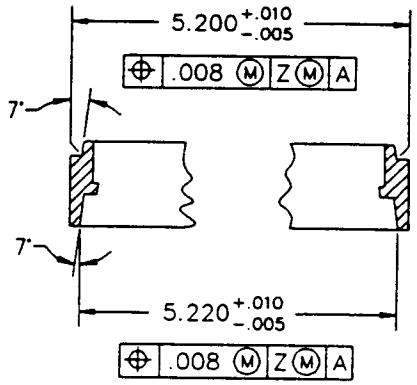
DETAIL~C
(ROTATED 90° CCW)



DETAIL~D
(ROTATED 90° CCW)



SECTION~H-H
(ROTATED 90° CCW)



SECTION~J-J

TRAY STACKING DETAIL

FIGURE 2

ALL DIMENSIONS ARE IN INCHES

JEDEC Solid State Product Outline	TITLE: TRAY FOR HANDLING AND SHIPPING OF CQFP PACKAGES	Issue B	Date 11/92	CO-011	S_{H_T} 2 O_F 4

NOTES:

1. THESE SURFACES TO BE FREE OF SEAMS.
2. 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.
5. THIS SCALLOP ALLOWS THE USE OF A PIN TO MECHANICALLY BIAS THE TRAY ORIENTATION.
6. THE SYMBOL N REFERS TO PACKAGE LEADCOUNT SUPPORTED
7. TOTAL USABLE CELLS N3 = N1 X N2
8. PACKAGE INTERFACE CONTROLLED BY PACKAGE DESIGN AND LEAD FORM.
9. NON-TABULATED DIMENSIONS HAVE A TOLERANCE OF .XX=±.01, .XXX=±.005, ANGLES ±0.5°
10. CONTROLLING DIMENSIONS ARE IN INCHES.
11. INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ANSI Y14.5M-1982.
12. 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.

VARIATION DIMENSIONS ARE IN INCHES

SYMBOL	AA			NOTE	AB			NOTE	AC			NOTE
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.		MIN.	NOM.	MAX.	
M		.701	BSC	13		.824	BSC	13		1.161	BSC	13
M1		.706	BSC	13		.944	BSC	13		.957	BSC	13
M2		.999	BSC	13		1.314	BSC	13		1.498	BSC	13
M3		.987	BSC	13		1.234	BSC	13		1.514	BSC	13
N		28/52		6		68		6		44/84		6
N1		5 COLUMNS				4 COLUMNS				3 COLUMNS		
N2		12 ROWS				9 ROWS				8 ROWS		
N3		60		7		36		7		24		7
N4	ROW/COLUMN [3/3], [10/3]			3	ROW/COLUMN [2/2], [8/3]			3	ROW/COLUMN [2/2], [7/2]			3
N5	ROW/COLUMN [6/3], [7/3]			4	ROW/COLUMN [5/2]			4	ROW/COLUMN [5/2]			4

VARIATION DIMENSIONS ARE IN INCHES

SYMBOL	AD			NOTE	AE			NOTE	AF			NOTE
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.		MIN.	NOM.	MAX.	
M		.824	BSC	13		.824	BSC	13		1.161	BSC	13
M1		.944	BSC	13		.944	BSC	13		.957	BSC	13
M2		1.314	BSC	13		1.314	BSC	13		1.498	BSC	13
M3		1.234	BSC	13		1.234	BSC	13		1.514	BSC	13
N		52/100		6		68/132		6		84/164		6
N1		4 COLUMNS				4 COLUMNS				3 COLUMNS		
N2		9 ROWS				9 ROWS				8 ROWS		
N3		36		7		36		7		24		7
N4	ROW/COLUMN [2/2], [8/3]			3	ROW/COLUMN [2/2], [8/3]			3	ROW/COLUMN [2/2], [7/2]			3
N5	ROW/COLUMN [5/2]			4	ROW/COLUMN [5/2]			4	ROW/COLUMN [5/2]			4

NOTE: 9,10,11
REF: 5-259
ISSUE: A

JEDEC Solid State Product Outline	TITLE: TRAY FOR HANDLING AND SHIPPING OF CQFP PACKAGES	Issue B	Date 11/92	CO-011	SHT 4 OF 4