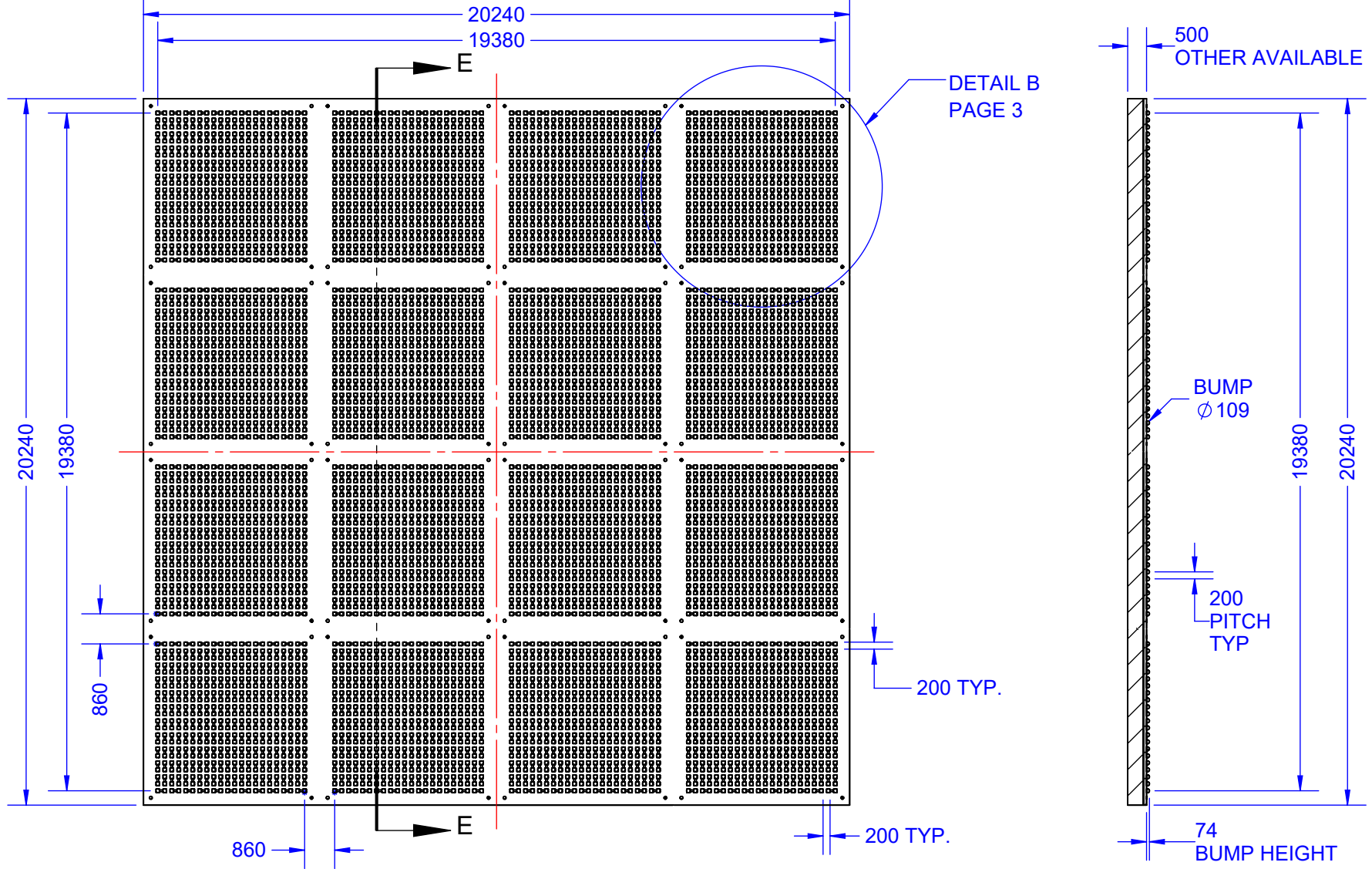


NOTES: (UNLES OTHERWISE SPECIFIED)

- 1) DIMENSIONS: MM [INCH].
- 2) DICING STREET WIDTH: 40 µm.
- 3) DICING INCREMENT: 20,240 µm.
- 4) BLADE KERF: 40~44 µm.

APPROVALS	DATE	<b>TopLine®</b>			
DRAWN T. Au	6/23/2021				
ENG M. Hart	6/23/2021	TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		2:3	A	177744	A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 9
REVISED					



DETAIL B  
PAGE 3

BUMP  
Ø109

200  
PITCH  
TYP

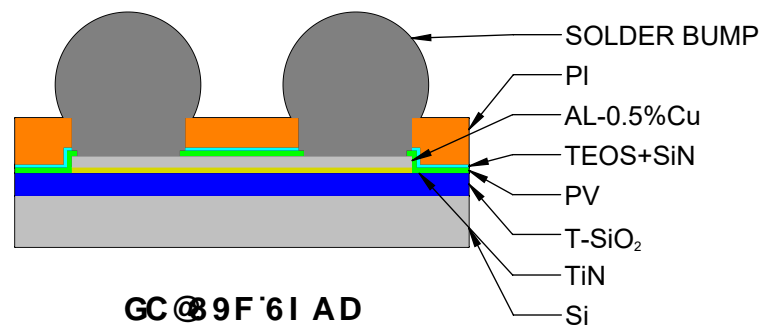
200 TYP.

200 TYP.

74  
BUMP HEIGHT

6I AD'J-9K

SECTION E-E  
SCALE 6 : 1



GC@9F'6I AD  
7FCGG'G97HCB

NOTES: (UNLES OTHERWISE SPECIFIED)

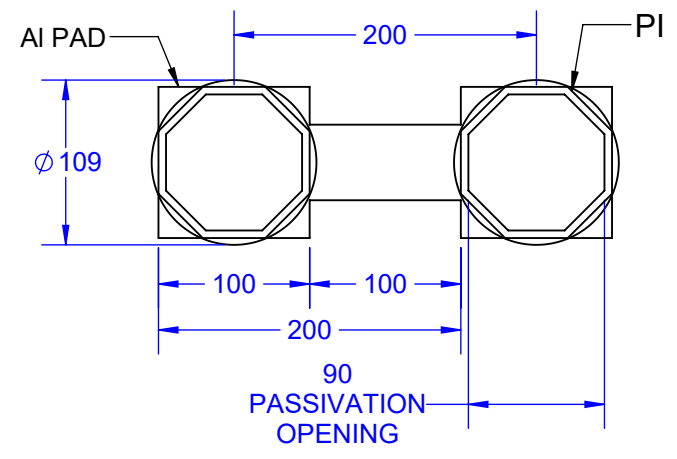
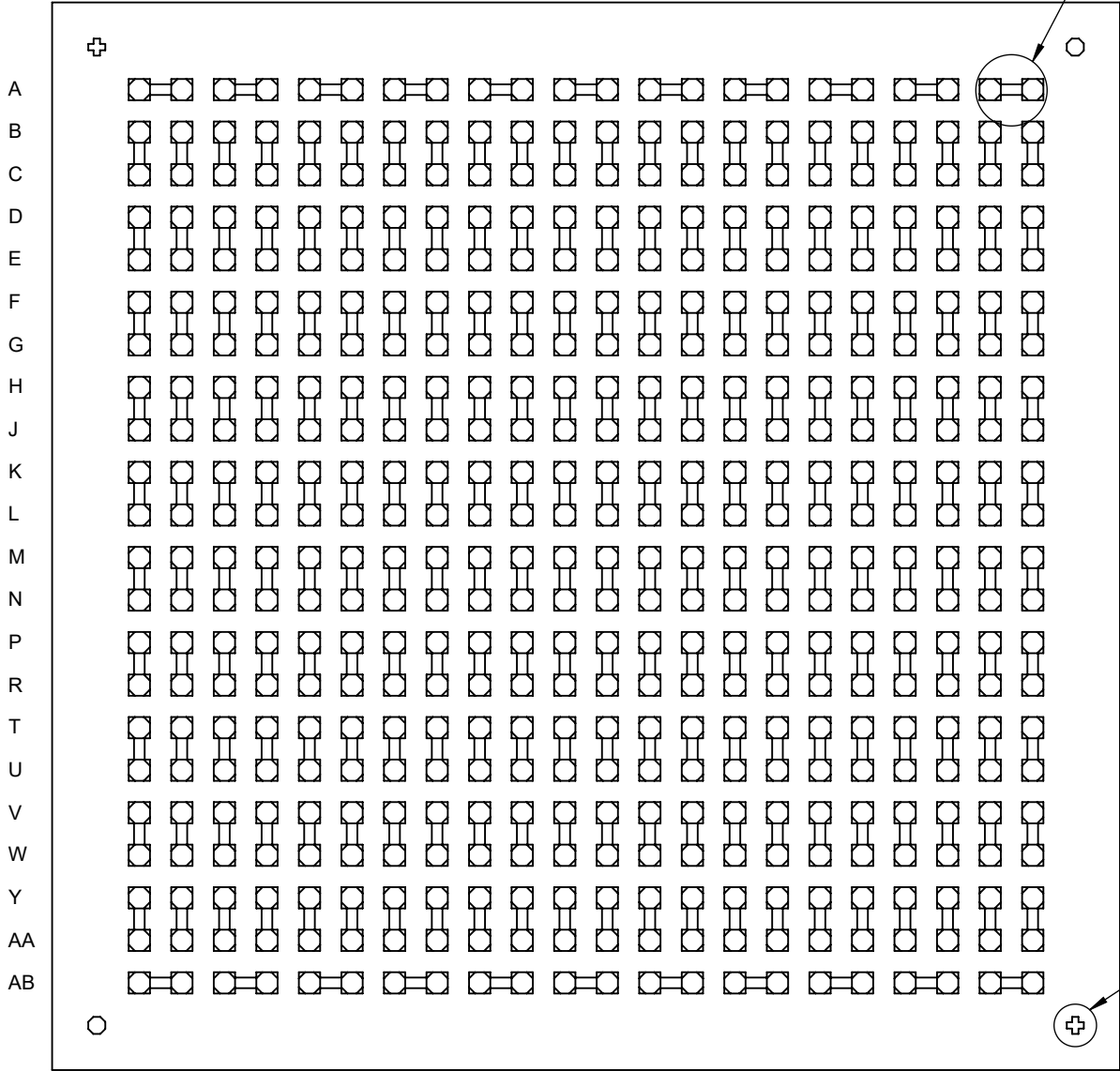
- 1) DIMENSIONS: µm (MICRON).
- 2) WAFER SIZE: Ø200 mm (8-INCH).
- 3) BUMP ALLOY: SAC305.
- 4) BUMP HEIGHT: 74µm.
- 5) BUMP DIAMETER: 109µm.

<b>TopLine®</b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE 6:1	SIZE A	DRAWING NO. 177744	REV A
DO NOT SCALE DRAWING		SHEET 2 OF 9	

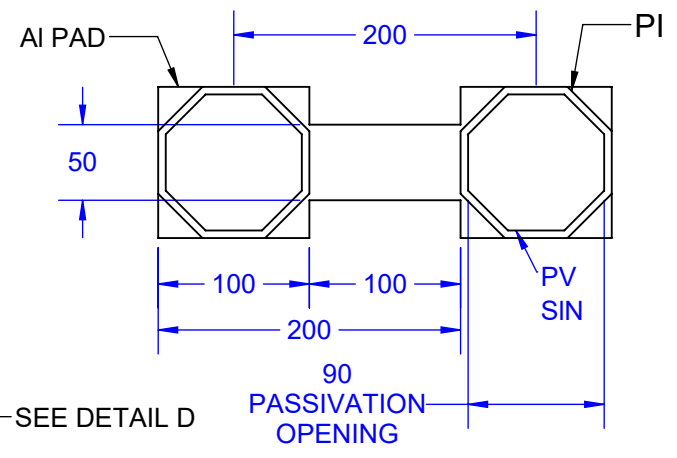
89H5=@6

89H5=@7  
GC@9F'6I AD'D58  
G75@'1'&\$\$.%

22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



D5 GG=J5 HCB'CD9B=B;  
G75@'1'&\$\$.%

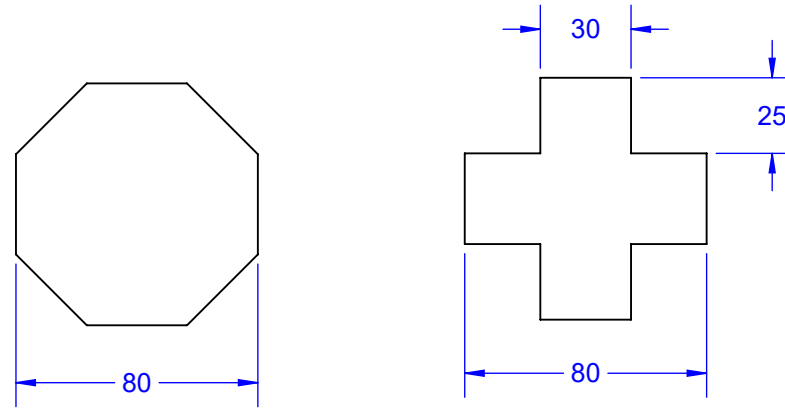


NOTES: (UNLES OTHERWISE SPECIFIED)

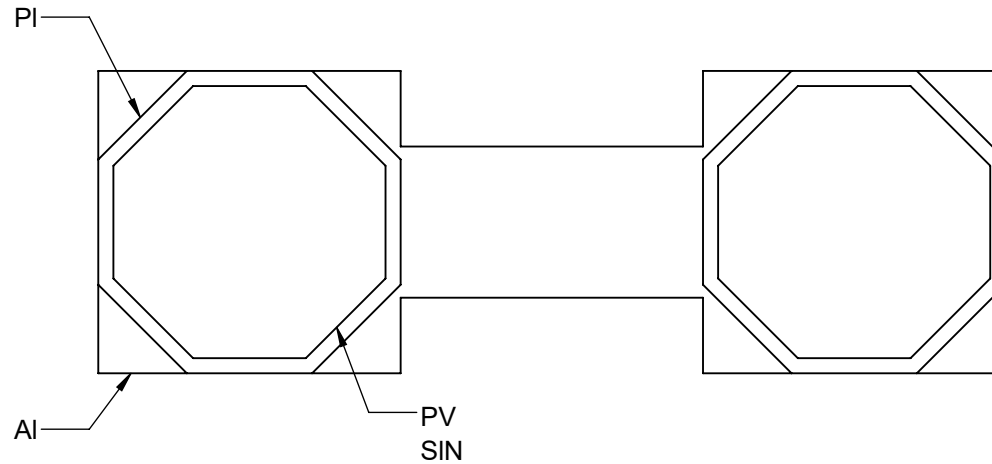
- 1) DIMENSIONS:  $\mu\text{m}$  (MICRON).
- 2) FC7744 = 16X FC484 (SEE DETAIL A).

<b>TopLine<sup>®</sup></b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE	SIZE	DRAWING NO.	REV
30:1	A	177744	A
DO NOT SCALE DRAWING			SHEET 3 OF 9

89H5=@8"  
 : 8175@

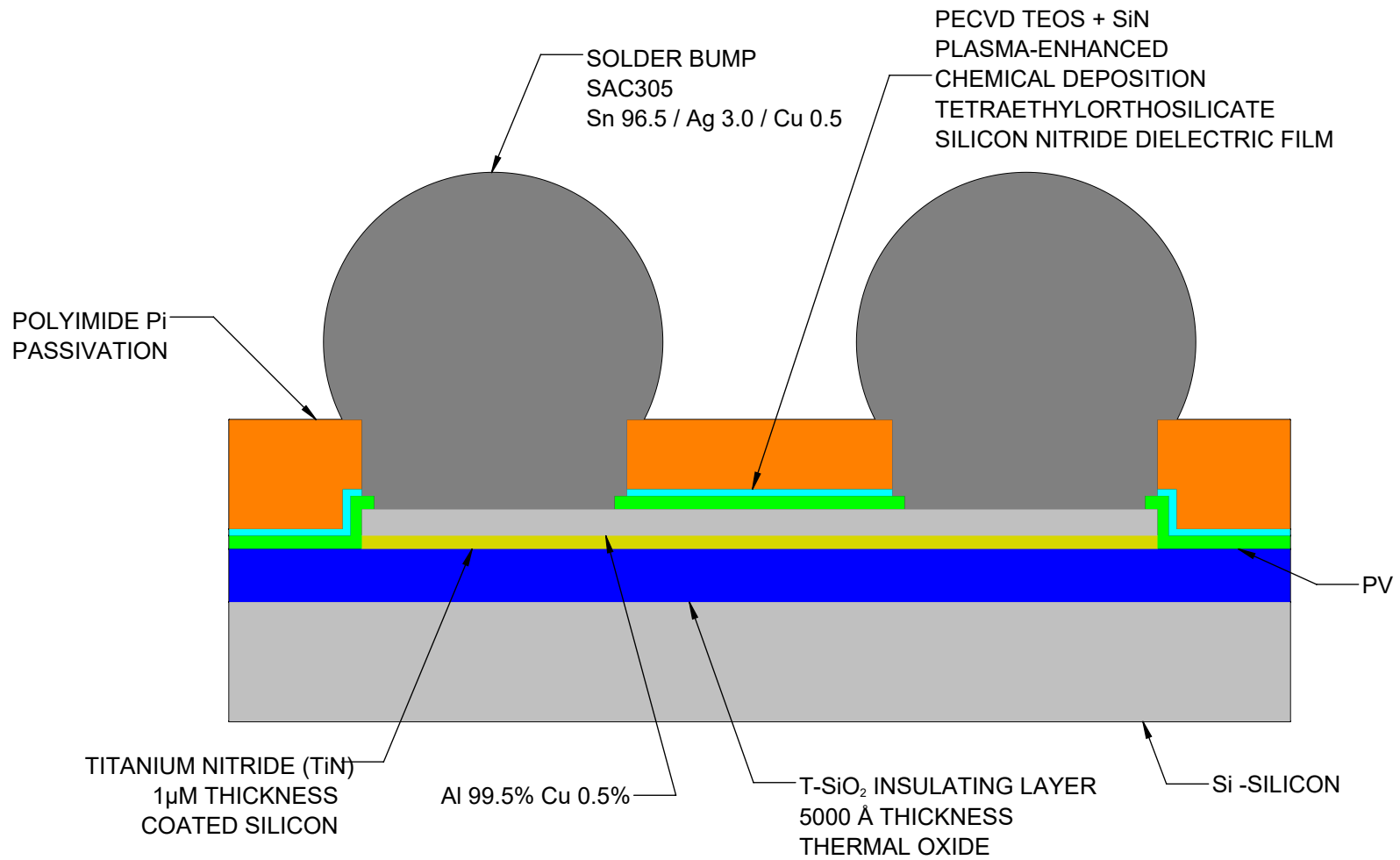


I 6 A 'D58 '89H5=@



NOTES: (UNLES OTHERWISE SPECIFIED)  
 1) DIMENSIONS:  $\mu\text{m}$  (MICRON).

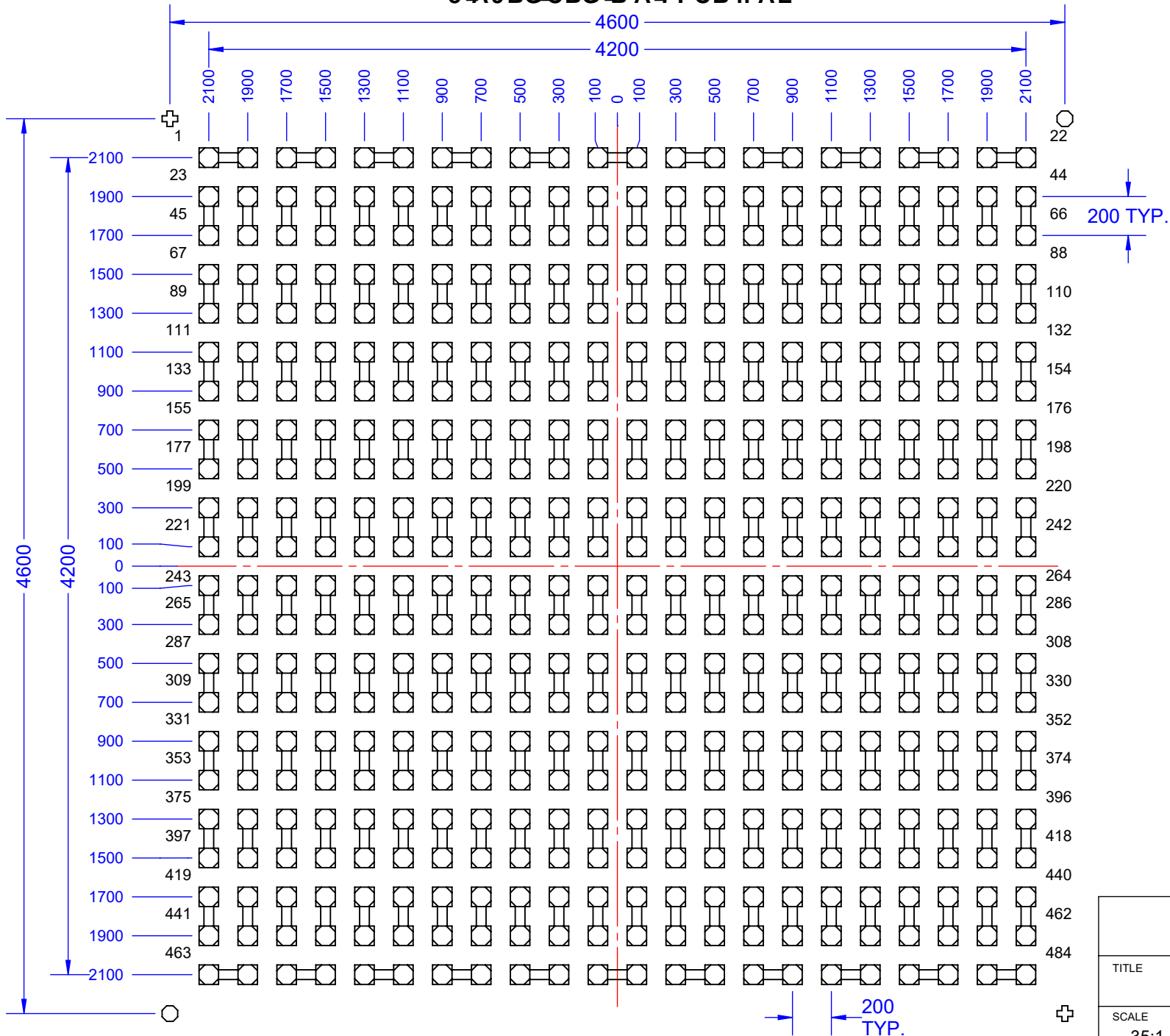
<b>TopLine<sup>®</sup></b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE 400:1	SIZE A	DRAWING NO. 177744	REV A
DO NOT SCALE DRAWING		SHEET 4 OF 9	



<b>TopLine<sup>®</sup></b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE 400:1	SIZE A	DRAWING NO. 177744	REV A
DO NOT SCALE DRAWING		SHEET 5 OF 9	



**D58 @ C75 HCB**  
**8-A9BG-CBG-B'A7FCB'fl AL**

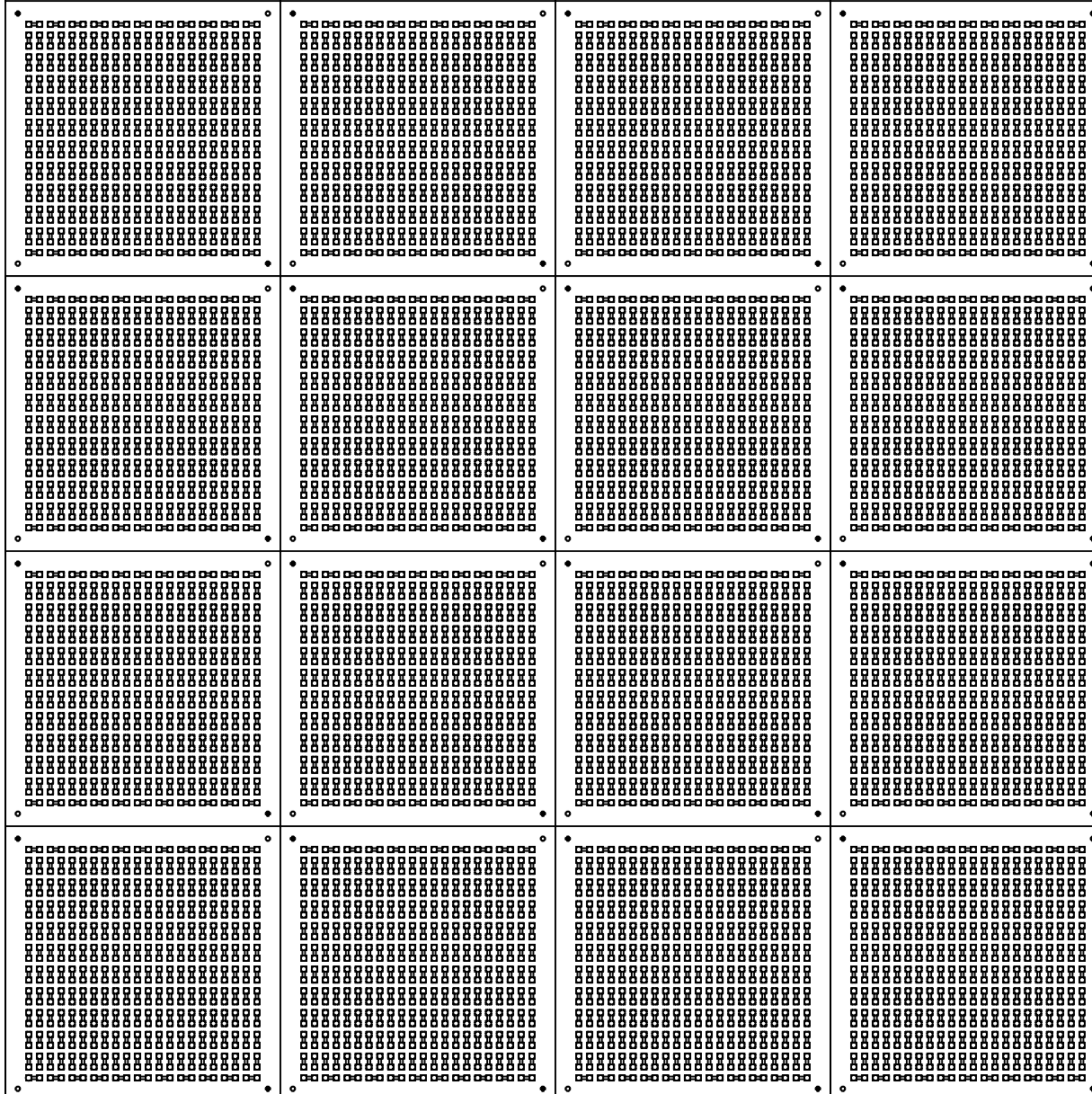


NOTE: FC7744 = 16X FC484 (SEE DETAIL A)

<b>TopLine®</b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE 35:1	SIZE A	DRAWING NO. 177744	REV A
DO NOT SCALE DRAWING		SHEET 7 OF 9	

8 7 B;  
 8 A9BG-CBG-B'A 7 FCB'fl A L

++( ' ! & \$ I & \$ A A  
 G75 @ , . %



— ∅ 0

— ∅ 5060

— ∅ 10120

— ∅ 15180

— ∅ 20240

← 40

<b>TopLine<sup>®</sup></b>			
TITLE FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE 8:1	SIZE A	DRAWING NO. 177744	REV A
DO NOT SCALE DRAWING		SHEET 8 OF 9	



D5 FH'BI A 69F-B; 'GMGH9A

**: 7      ++(( ;**

**: @D'7 <=D**

FC = STANDARD FLIP CHIP  
 FCW = BUMPED WAFER\*  
 FCN = BUMPLESS CHIP  
 FCWN = BUMPLESS WAFER\*

\*200MM WAFER

**BI A 69F'C: '6I ADG**

BUMP	CHIPS
484	1X
1936	4X
2904	6X
4356	9X
7744	16X

**6I AD'8=5A9H9F**

DIAMETER  $\phi$  109  $\mu$ m  
 HEIGHT 74  $\mu$ m

**&\$      7**

**8=9'G=N9**

BUMP	SIZE
484	5 x 5 mm
1936	10 x 10 mm
2904	10 x 15 mm
4356	15 x 15 mm
7744	20 x 20 mm

**D58'A5H9F=5 @**

C = SAC BUMP  
 A = AI PAD (BUMPESS)  
 G = GOLD PAD (BUMPLESS)

**&\$\$ !      CDH=CB !**

**6I AD'D=H7 <**

$\mu$ M

**8=9'H<=BB=B;**

CODE	$\mu$ M	MIL
NONE	500	20
BG400	400	16
BG350	350	14
BG300	300	12
BG250	250	10
BG200	200	8

OTHER THICKNESS  
 AVAILABLE

**87 !      D57?5; =B;**

**85 =GM7 <5 =B**

**CDH=CBG**

BLANK = TRAY (STANDARD)

BUMP	TRAY	QTY
484	2-INCH	36 PCS
1936	4-INCH	49 PCS
2904	4-INCH	24 PCS
4356	4-INCH	25 PCS
7744	4-INCH	9 PCS

WAFER FORMAT  
 C = CASSETTE  
 UV = UV TAPE  
     WAFER RING  
 NT = NON UV TAPE  
     WAFER RING  
 GP = GEL-PAK

<b>TopLine<sup>®</sup></b>			
TITLE      FC7744G20C200-DC DAISY CHAIN BUMPED DIE			
SCALE	SIZE	DRAWING NO.	REV
NONE	A	177744	A
DO NOT SCALE DRAWING			SHEET 9 OF 9