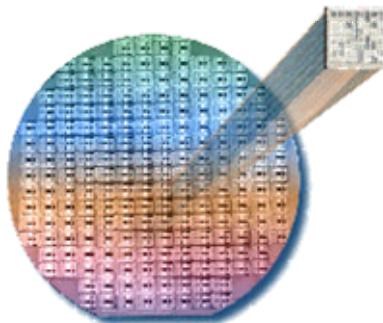




Silicon Test Die

Wire Bondable



Silicon Test Die Variety of Wire Bondable Patterns

Silicon Die with Daisy Chain

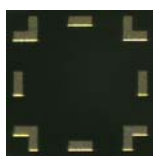
Nbr Pads	Description	Pad Size	Size (mm)	Die Material	Metalization	Tray Qty	Part Number	Fig.
8 pairs	Daisy Chain	60 x 160µm	1.0 x 1.0mm	Si	Al	100	TD8-1.0-DC	1
16 pairs	Daisy Chain	60 x 160µm	2.5 x 2.5mm	Si	Al	100	TD16-2.5-DC	2
24 pairs	Daisy Chain	60 x 360µm	4.0 x 4.0mm	Si	Al	64	TD24-4.0-DC	3

Specs: Die Thickness 250µm • Al Metallization 1.0µm over 0.75µm SiO₂ • Passivation = None

Daisy Chain Patterns

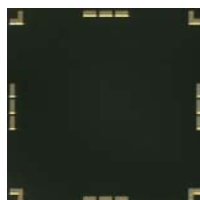
(Not to Scale)

Fig. 1



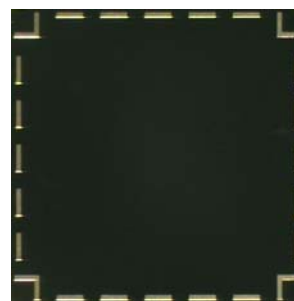
TD8-1.0-DC
1.0 x 1.0mm
151008

Fig. 2



TD16-2.5-DC
2.5 x 2.5mm
152516

Fig. 3



TD24-4.0-DC
4.0 x 4.0mm
154024

Silicon Die with Isolated Pads

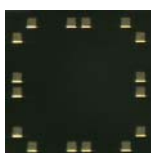
Nbr Pads	Description	Pad Size	Size (mm)	Die Material	Metalization	Tray Qty	Part Number	Fig.
16	Isolated Pad	60µm SQ.	1.0 x 1.0mm	Si	Al	100	TD16-1.0-ISO	4
32	Isolated Pad	60µm SQ.	2.5 x 2.5mm	Si	Al	100	TD32-2.5-ISO	5
48	Isolated Pad	60µm SQ.	4.0 x 4.0mm	Si	Al	64	TD48-4.0-ISO	6

Specs: Die Thickness 250µm • Al Metallization 1.0µm over 0.75µm SiO₂ • Passivation = None

Isolated Pad Patterns

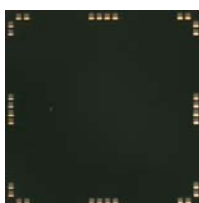
(Not to Scale)

Fig. 4



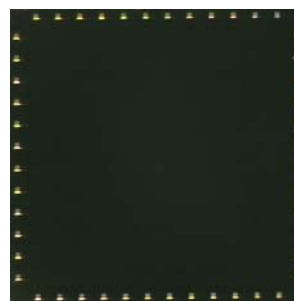
TD16-1.0-ISO
1.0 x 1.0mm
151016

Fig. 5



TD32-2.5-ISO
2.5 x 2.5mm
152533

Fig. 6



TD48-4.0-ISO
4.0 x 4.0mm
154048

Silicon Die with Differential Pairs for RF/Microwave Parasitic Test

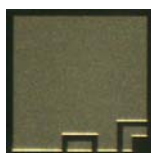
Nbr Pads	Description	Pad Size	Size (mm)	Die Material	Metalization	Tray Qty	Part Number	Fig.
2 Pads With Ground	Differential Pair	Pad 60 x 160µm Grnd 1000µm SQ.	1.0 x 1.0mm	Si	Al	100	TD2-1.0-DIF	7
2 Pads With Ground	Differential Pair	Pad 60 x 160µm Grnd 2500µm SQ.	2.5 x 2.5mm	Si	Al	100	TD2-2.5-DIF	8
2 Pads With Ground	Differential Pair	Pad 60 x 160µm Grnd 4000µm SQ.	4.0 x 4.0mm	Si	Al	64	TD2-4.0-DIF	9

Specs: Die Thickness 250µm • Al Metallization 1.0µm over 0.75µm SiO₂ • Passivation = None

Differential Pair Pad Patterns

(Not to Scale)

Fig. 7



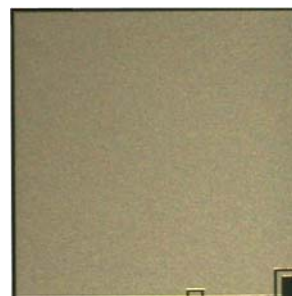
TD2-1.0-DIF
1.0 x 1.0mm
151002

Fig. 8



TD2-2.5-DIF
2.5 x 2.5mm
152502

Fig. 9



TD2-4.0-DIF
4.0 x 4.0mm
154002

Silicon Die with Full Metallization

Nbr Pads	Description	Pad Size	Size (mm)	Die Material	Metalization	Tray Qty	Part Number	Fig.
1 Large Pad	Fully Metallized	1000µm SQ.	1.0 x 1.0mm	Si	Al	100	TD1-1.0-BUS	10
1 Large Pad	Fully Metallized	2500µm SQ.	2.5 x 2.5mm	Si	Al	100	TD1-2.5-BUS	11
1 Large Pad	Fully Metallized	4000µm SQ.	4.0 x 4.0mm	Si	Al	64	TD1-4.0-BUS	12

Specs: Die Thickness 250µm • Al Metallization 1.0µm over 0.75µm SiO₂ • Passivation = None

Fully Metallized Pad Patterns

(Not to Scale)

Fig. 10



TD1-1.0-BUS
1.0 x 1.0mm
151001

Fig. 11



TD1-2.5-BUS
2.5 x 2.5mm
152501

Fig. 12



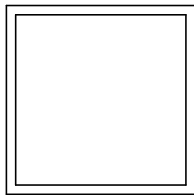
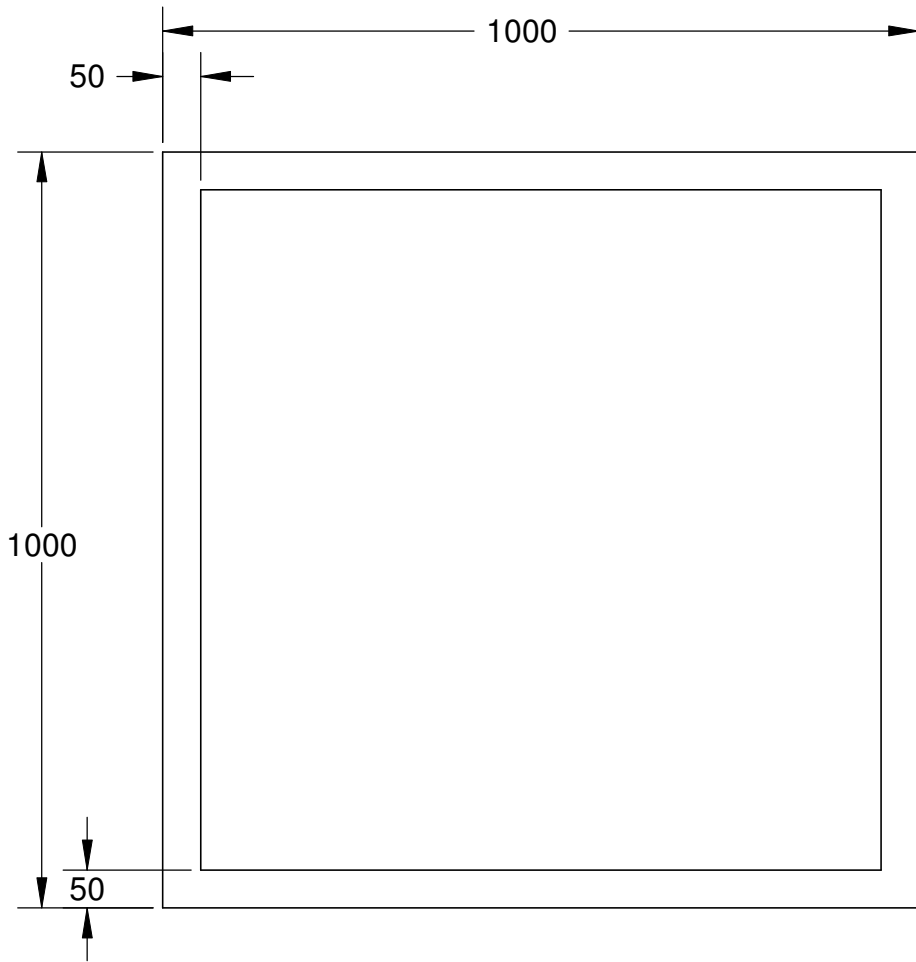
TD1-4.0-BUS
4.0 x 4.0mm
154001

JEDEC Moisture Sensitivity Level **MSL-1**

TopLine Corporation
95 Highway 22 W
Milledgeville, GA 31061, USA
Toll Free USA/Canada (800) 776-9888
International: 1-478-451-5000 • Fax: 1-478-451-3000
Email: sales@topline.tv

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SCALE 25:1

Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) FULLY METALLIZED OVER ENTIRE SURFACE OF DIE.
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

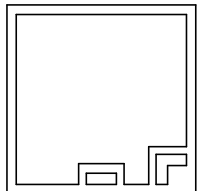
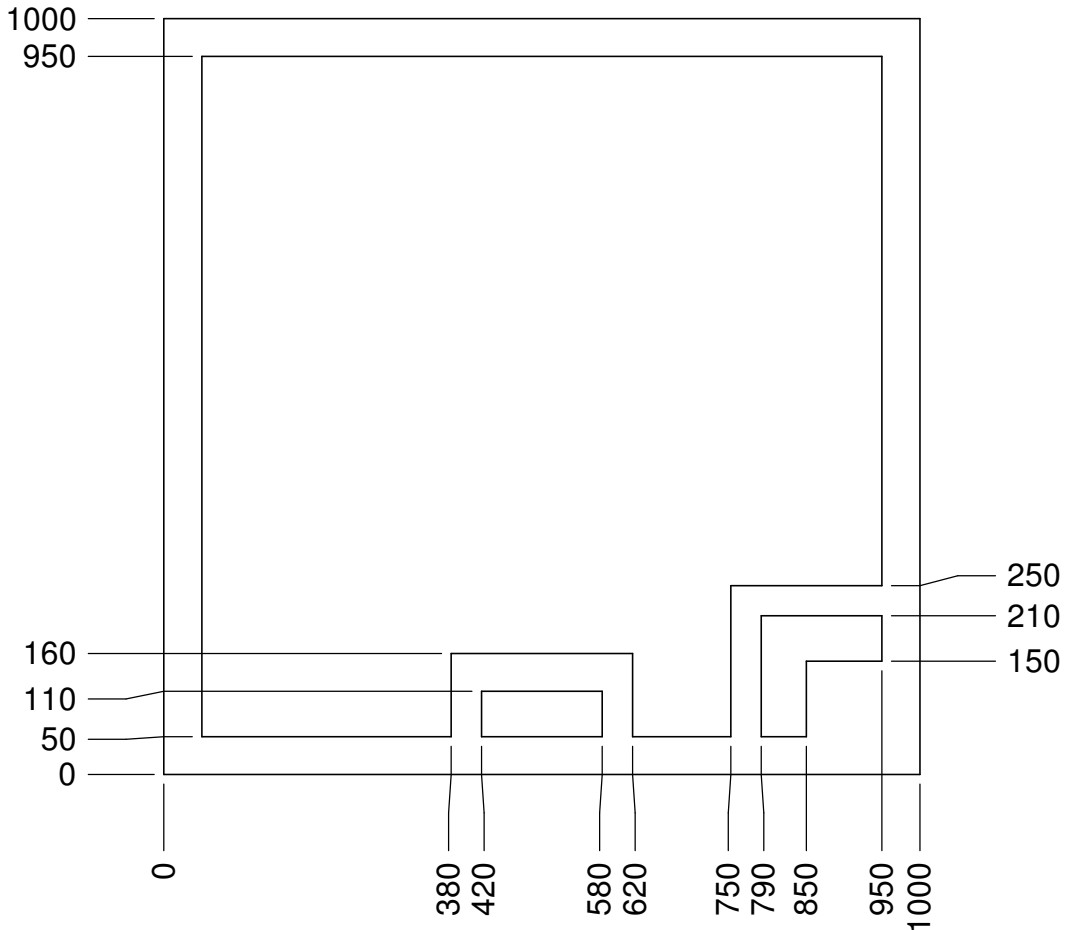
PART NUMBER SYSTEM				
TD	-	1	-	BUS
SILICON TEST DIE		BOND PADS	DIE SIZE (mm)	FULLY METALLIZED

TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS
THIRD ANGLE PROJECTION	

APPROVALS	DATE
DRAWN J. HINES	5/2/2010
ENG	
MFG	
QA	
CUST	
REVISED	

TITLE			
Si TEST DIE TD SERIES			
SCALE	SIZE	DRAWING NO.	REV
100:1	A	151001	A
DO NOT SCALE DRAWING		SHEET 1 OF 1	

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED


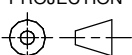


SCALE 25:1

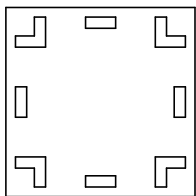
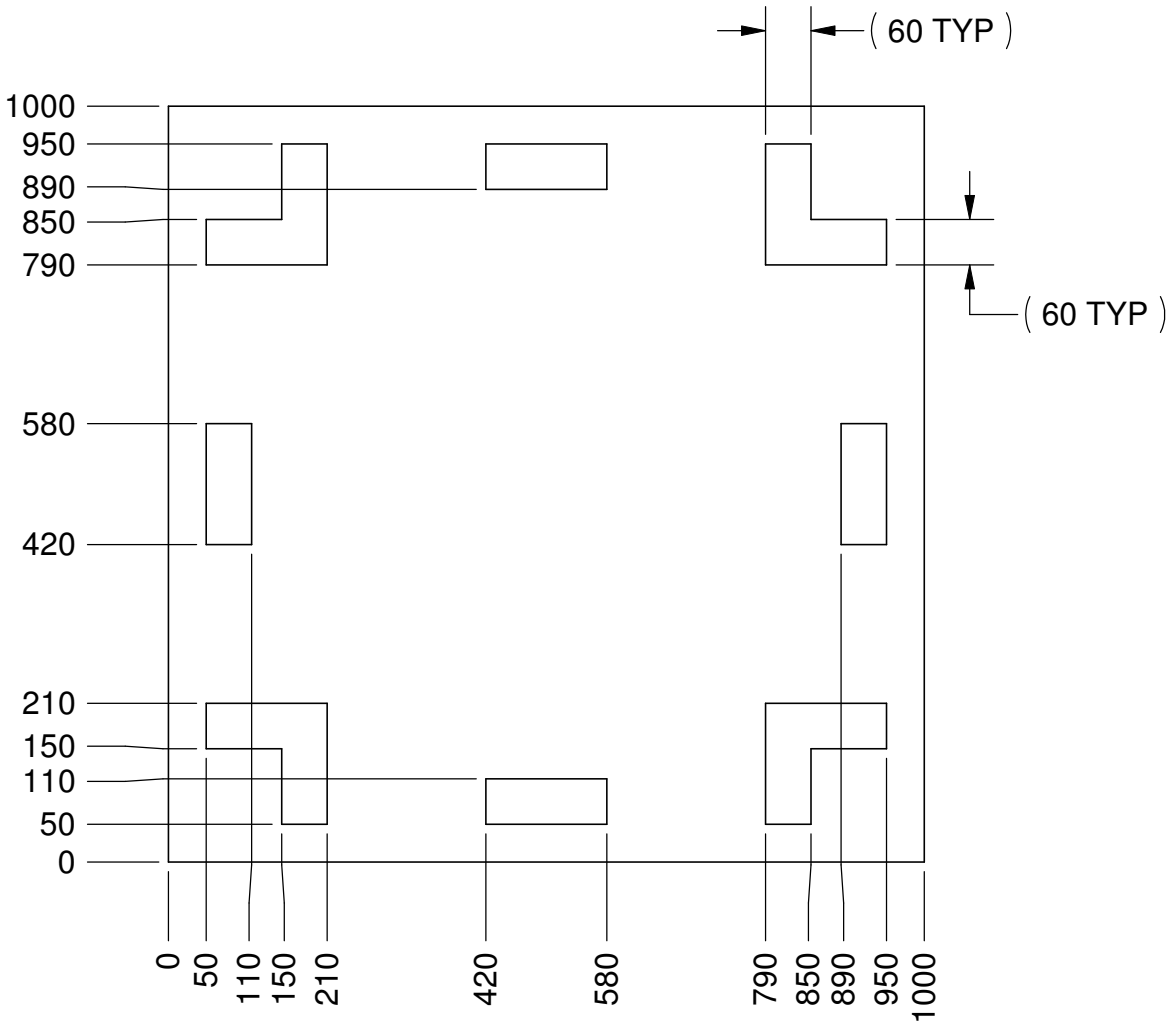
- Notes: (Unless Otherwise Specified).
- 1) DIE MATERIAL IS SILICON.
 - 2) DIE THICKNESS IS 250 μm (10 MIL).
 - 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
 - 4) DIE IS WITHOUT PASSIVATION.
 - 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
 - 6) DIFFERENTIAL PAIR (2 PADS) WITH LARGE GROUND PAD.
 - 7) RF / MICROWAVE PARASITIC TEST APPLICATIONS.
 - 8) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM						
TD	-	2	-	1.0	-	DIF
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	DIFFERENTIAL PAIR			

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.XX	+/- 0.01	DRAWN J. HINES	4/2/2010	TITLE Si TEST DIE TD SERIES			
X.XXX	+/- 0.005						
X.XXXX	+/- 0.0005						
ANGLES	+/- 0.5°	ENG					
ALL DIMENSIONS IN		MFG					
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THIRD ANGLE PROJECTION		CUST		100:1	A	151002	A
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REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



SCALE 25:1

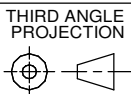
Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) DAISY CHAIN PAIRS (8 PLACES).
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.


DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM					
TD	-	8	-	1.0	DC
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)			DAISY CHAIN

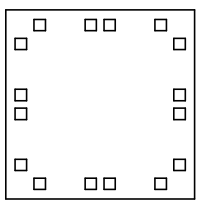
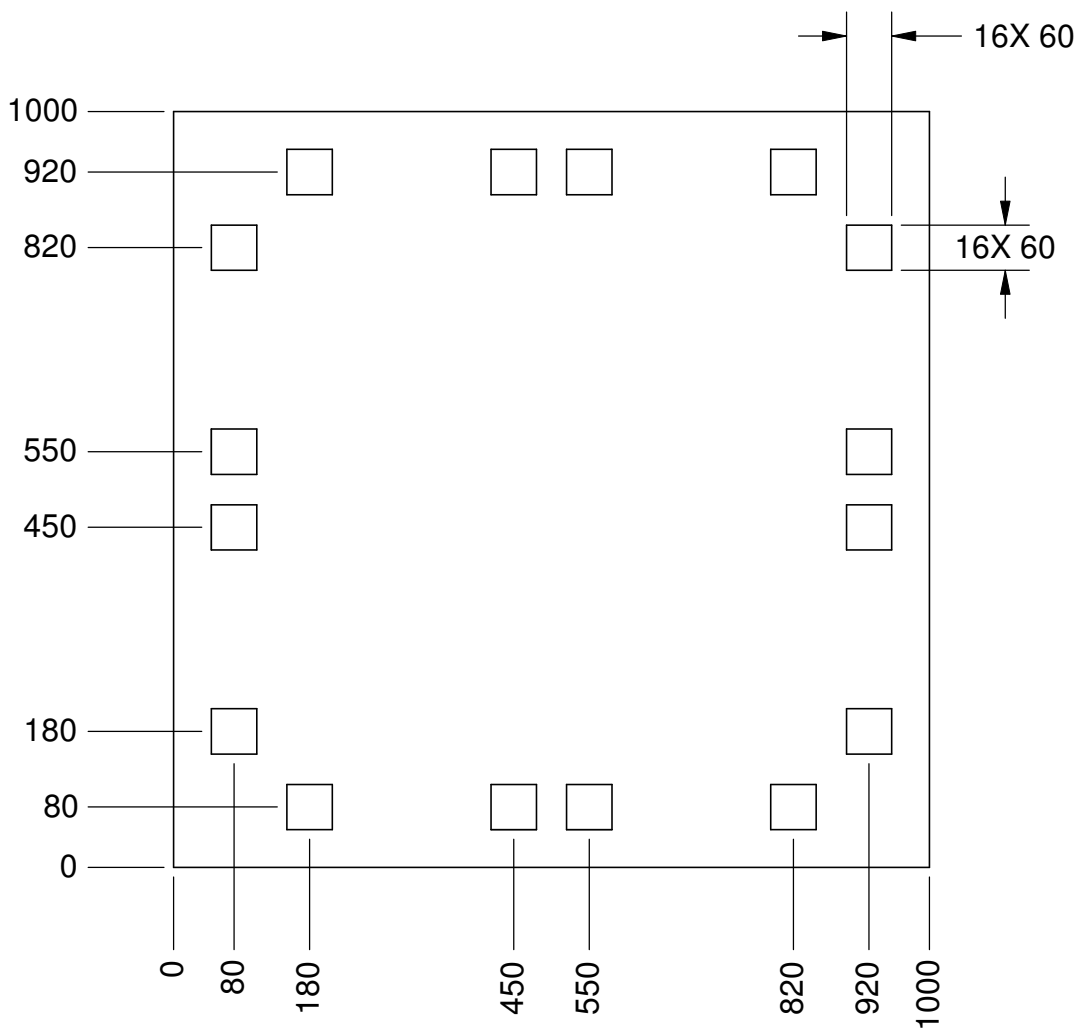
TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS



APPROVALS	DATE
DRAWN J. HINES	5/2/2010
ENG	
MFG	
QA	
CUST	
REVISED	

			
TITLE Si TEST DIE TD SERIES			
SCALE 100:1	SIZE A	DRAWING NO. 151008	REV A
DO NOT SCALE DRAWING		SHEET 1 OF 1	

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED


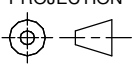


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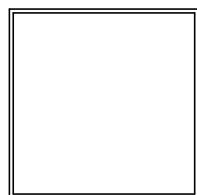
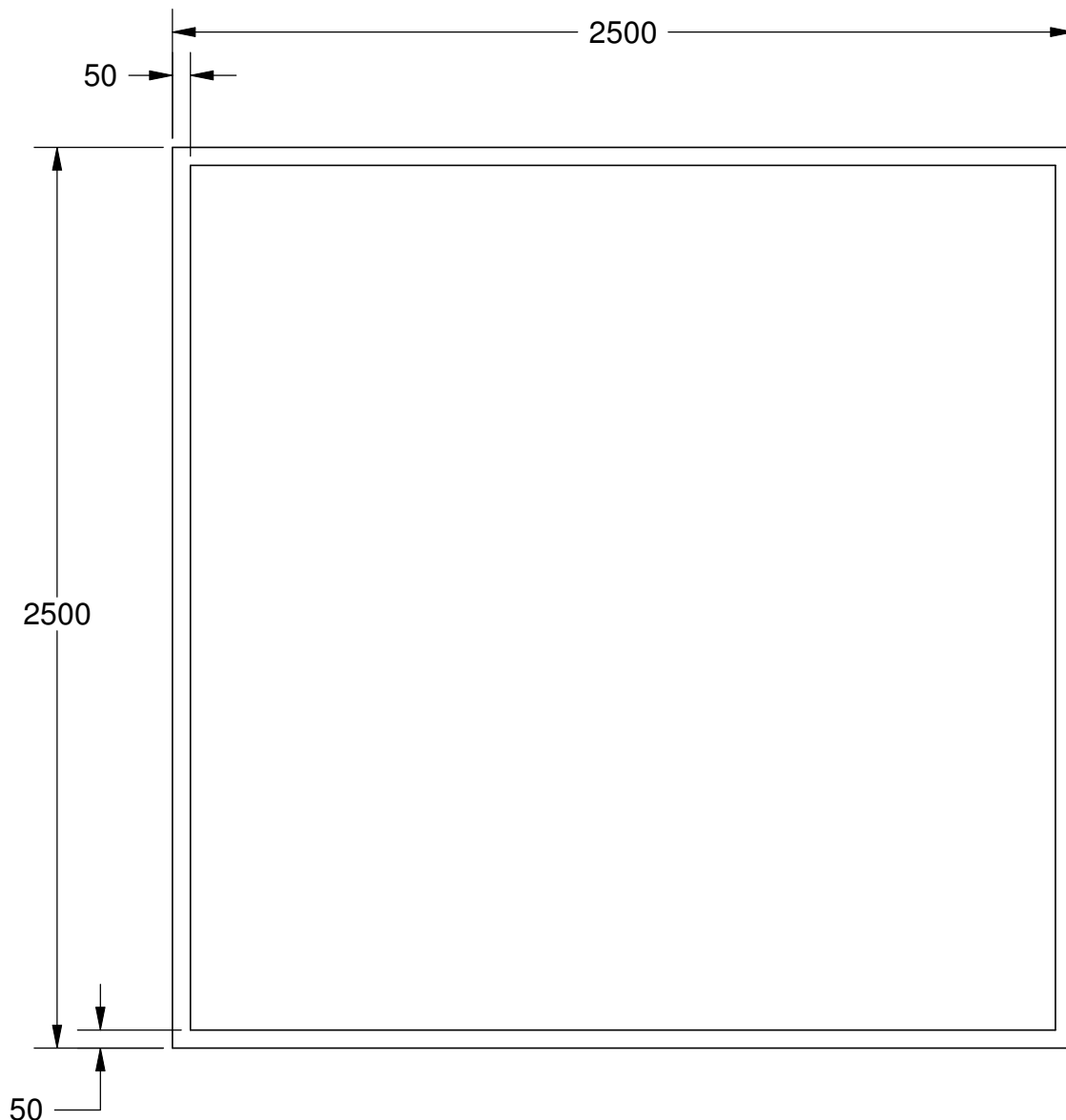
- Notes: (Unless Otherwise Specified).
- 1) DIE MATERIAL IS SILICON.
 - 2) DIE THICKNESS IS 250 μm (10 MIL).
 - 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO₂.
 - 4) DIE IS WITHOUT PASSIVATION.
 - 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
 - 6) ISOLATED PADS 60 μm SQUARE (16 PLACES).
 - 7) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM						
TD	-	16	-	1.0	-	ISO
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	ISOLATED PADS			

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.XX	+/- 0.01	DRAWN J. HINES	5/2/2010				
X.XXX	+/- 0.005						
X.XXXX	+/- 0.0005						
ANGLES +/- 0.5°		ENG		SCALE 100:1 SIZE A DRAWING NO. 151016 REV A			
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THIRD ANGLE PROJECTION		QA		DO NOT SCALE DRAWING SHEET 1 OF 1			
		CUST					
		REVISED					

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



SCALE 10:1

Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) FULLY METALLIZED OVER ENTIRE SURFACE OF DIE.
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.

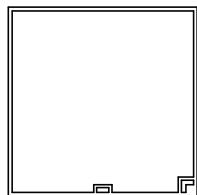
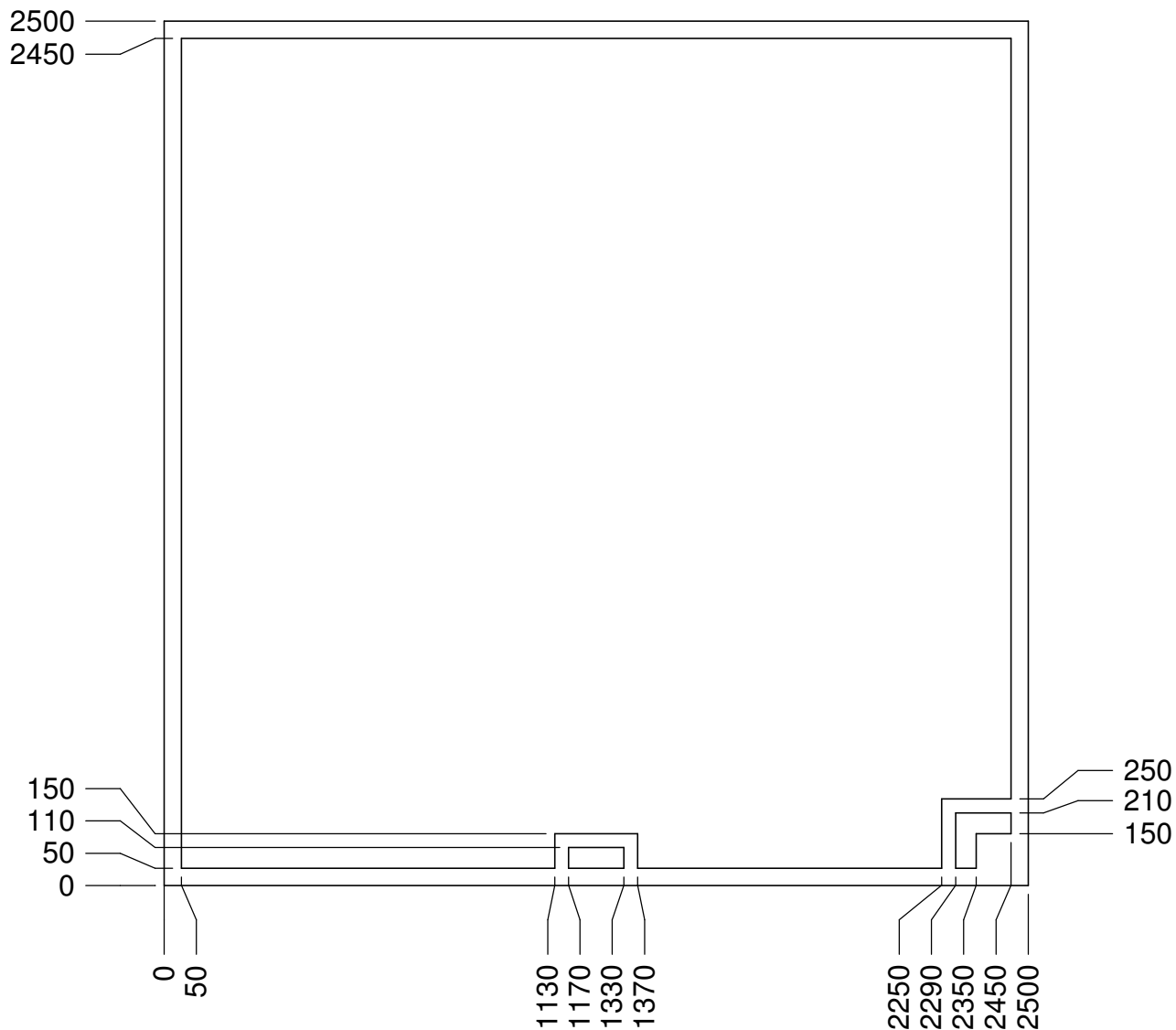
DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM						
TD	-	1	-	2.5	-	BUS
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	FULLY METALLIZED			

TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS
THIRD ANGLE PROJECTION	

APPROVALS	DATE				
DRAWN J. HINES	5/8/2010	TITLE Si TEST DIE TD SERIES			
ENG		SCALE 50:1	SIZE A	DRAWING NO. 152501	REV A
MFG		DO NOT SCALE DRAWING		SHEET 1 OF 1	
QA					
CUST					
REVISED					

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED




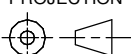
SCALE 10:1

Notes: (Unless Otherwise Specified).

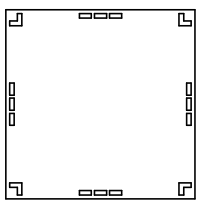
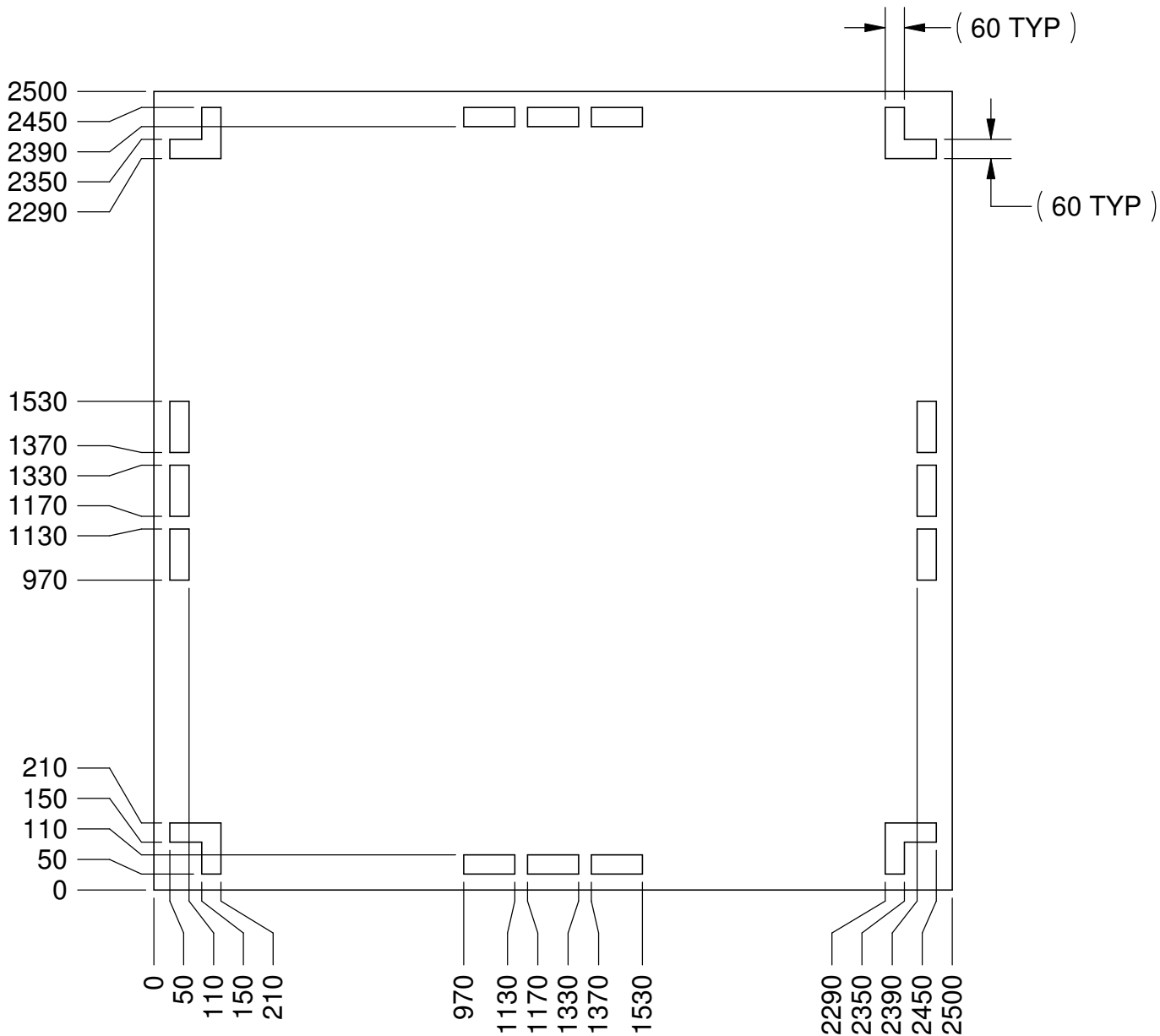
- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 um (10 MIL).
- 3) METALLIZATION 1.0 um ALUMINUM (Al) OVER 0.75 um SiO₂.
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) DIFFERENTIAL PAIR (2 PADS) WITH LARGE GROUND PAD.
- 7) RF / MICROWAVE PARASITIC TEST APPLICATIONS.
- 8) TOLERANCE = ± 1 um.

DIMENSIONS IN MICRONS
1000 um = 1.0mm

PART NUMBER SYSTEM					
TD	-	2	-	2.5	- DIF
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	DIFFERENTIAL PAIR		

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.XX	+/- 0.01	DRAWN J. HINES	5/8/2010	TITLE Si TEST DIE TD SERIES			
X.XXX	+/- 0.005						
X.XXXX	+/- 0.0005						
ANGLES	+/- 0.5°	ENG		SCALE	SIZE	DRAWING NO.	REV
ALL DIMENSIONS IN		MFG		50:1	A	152502	A
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THIRD ANGLE PROJECTION		CUST					
		REVISED					

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



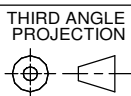
SCALE 10:1

Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) DAISY CHAIN PAIRS (16 PLACES).
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS

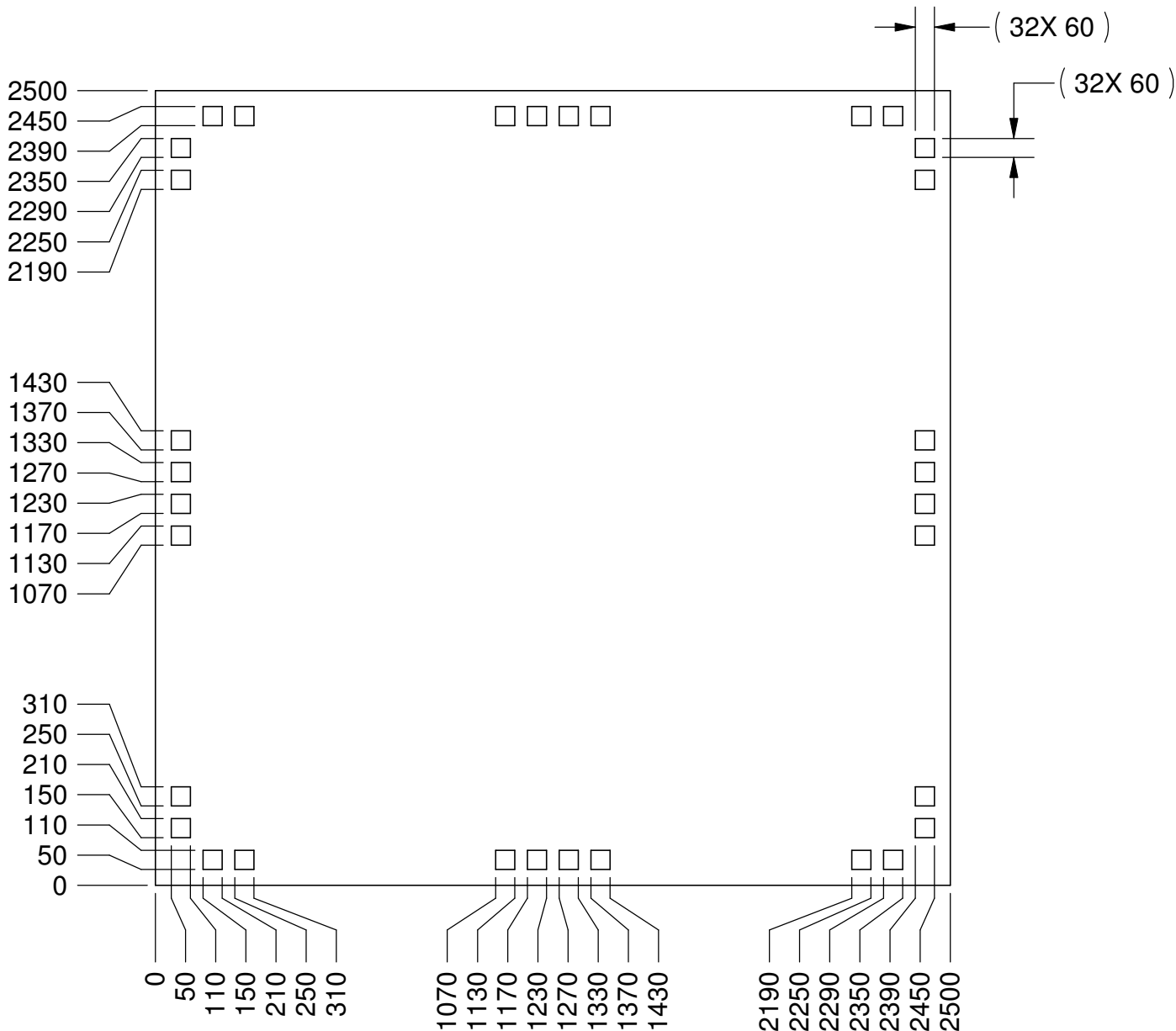


APPROVALS	DATE
DRAWN J. HINES	5/7/2010
ENG	
MFG	
QA	
CUST	
REVISED	

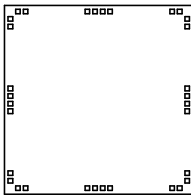
TopLine [®]			
TITLE Si TEST DIE TD SERIES			
SCALE 50:1	SIZE A	DRAWING NO. 152516	REV A
DO NOT SCALE DRAWING		SHEET 1 OF 1	

PART NUMBER SYSTEM					
TD	-	16	-	2.5	- DC
SILICON TEST DIE		BOND PADS		DIE SIZE (mm)	DAISY CHAIN

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



- Notes: (Unless Otherwise Specified).
- 1) DIE MATERIAL IS SILICON.
 - 2) DIE THICKNESS IS 250 μm (10 MIL).
 - 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO_2 .
 - 4) DIE IS WITHOUT PASSIVATION.
 - 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
 - 6) ISOLATED PADS 60 μm SQUARE (32 PLACES).
 - 7) TOLERANCE = $\pm 1 \mu\text{m}$.



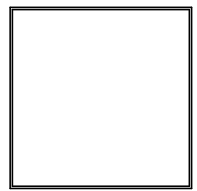
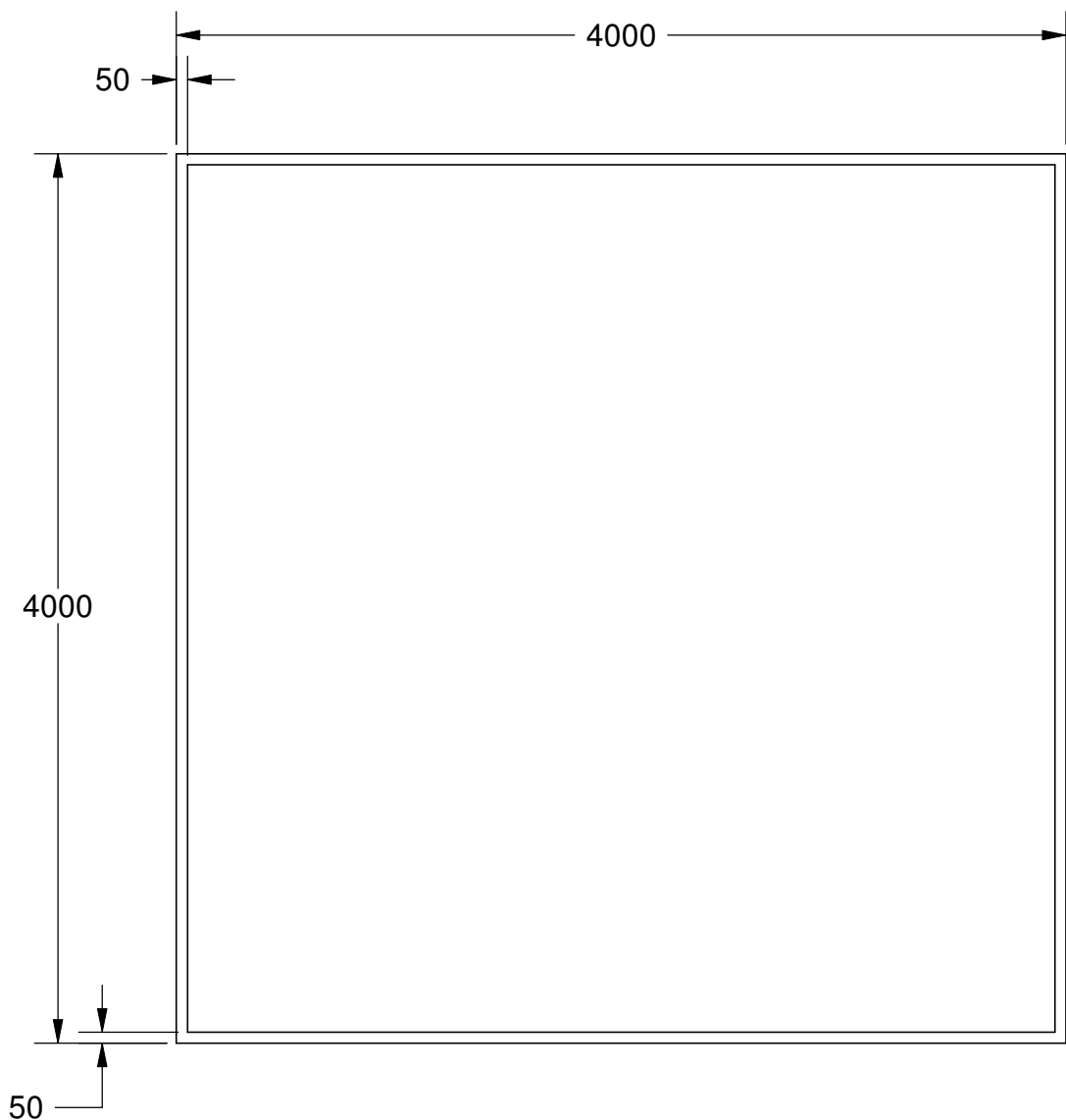
SCALE 10:1

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM						
TD	-	32	-	2.5	-	ISO
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	ISOLATED PADS			

TOLERANCE UNLESS NOTED		APPROVALS	DATE								
X.XX	+/- 0.01	DRAWN J. HINES	5/8/2010	TITLE Si TEST DIE TD SERIES							
X.XXX	+/- 0.005										
X.XXXX	+/- 0.0005										
ANGLES	+/- 0.5°	ENG		SCALE	50:1	SIZE	A	DRAWING NO.	152533	REV	A
ALL DIMENSIONS IN		MFG		DO NOT SCALE DRAWING		SHEET 1 OF 1					
<input checked="" type="checkbox"/> INCHES <input type="checkbox"/> MILLIMETERS		QA									
THIRD ANGLE PROJECTION		CUST									
		REVISED									

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



SCALE 6:1

Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO₂.
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) FULLY METALLIZED OVER ENTIRE SURFACE OF DIE.
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

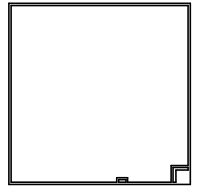
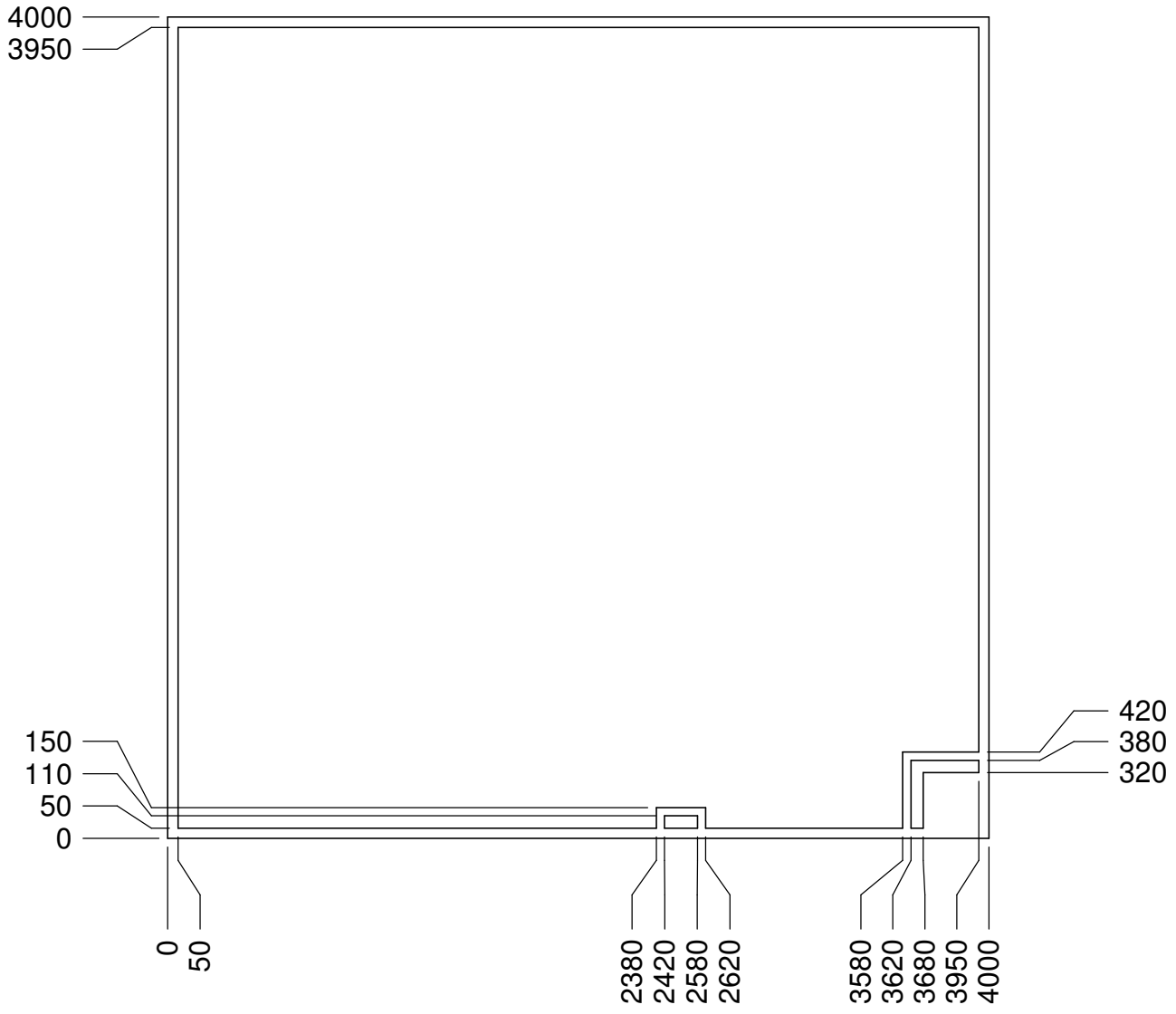
PART NUMBER SYSTEM					
TD	-	1	-	4.0	- BUS
SILICON TEST DIE		BOND PADS		DIE SIZE (mm)	FULLY METALLIZED

TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS
THIRD ANGLE PROJECTION	

APPROVALS	DATE
DRAWN J. HINES	5/8/2010
ENG	
MFG	
QA	
CUST	
REVISED	

TITLE Si TEST DIE TD SERIES			
SCALE 30:1	SIZE A	DRAWING NO. 154001	REV A
DO NOT SCALE DRAWING		SHEET 1 OF 1	

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



SCALE 6:1

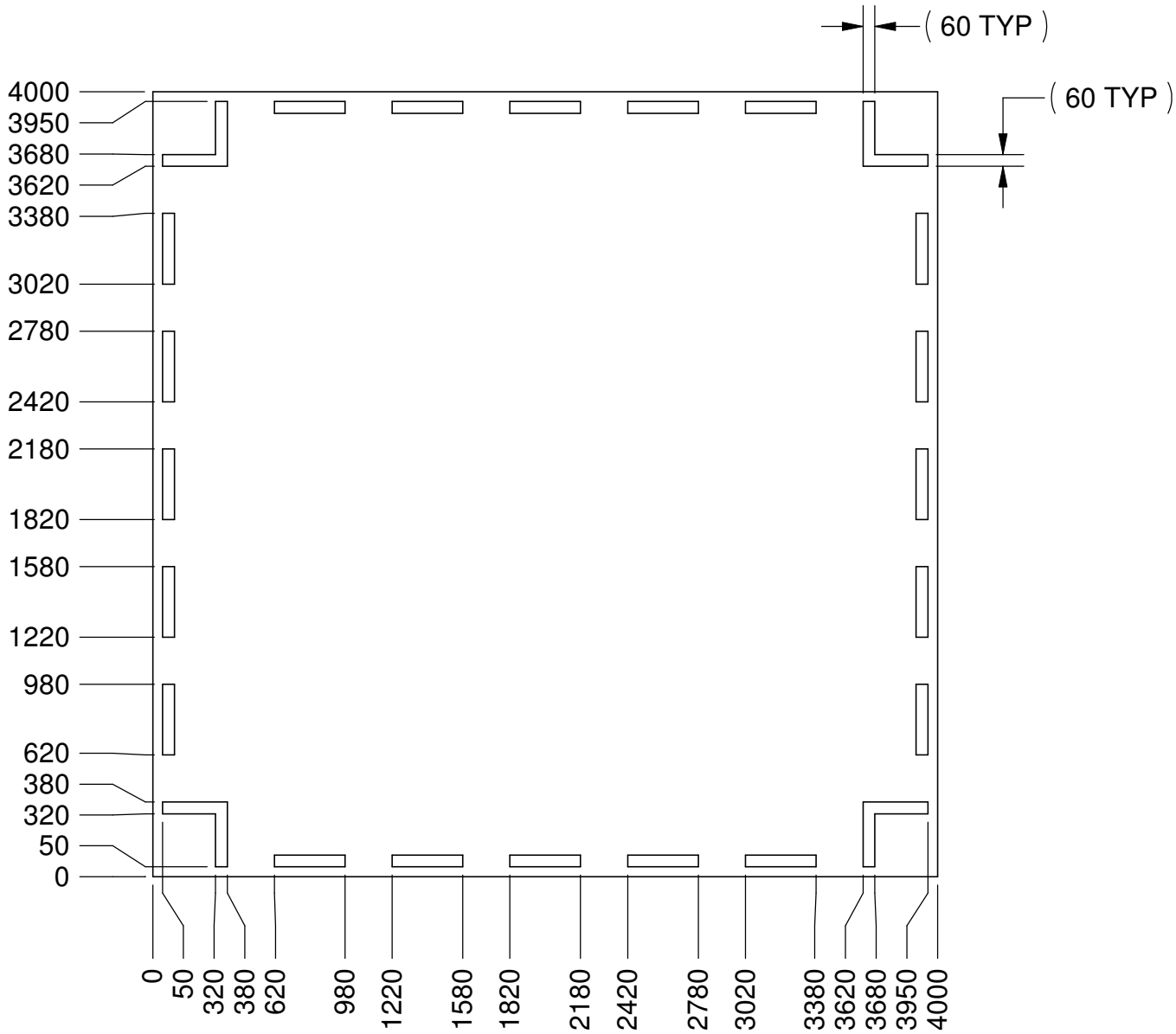
- Notes: (Unless Otherwise Specified).
- 1) DIE MATERIAL IS SILICON.
 - 2) DIE THICKNESS IS 250 μm (10 MIL).
 - 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO₂.
 - 4) DIE IS WITHOUT PASSIVATION.
 - 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
 - 6) DIFFERENTIAL PAIR (2 PADS) WITH LARGE GROUND PAD.
 - 7) RF / MICROWAVE PARASITIC TEST APPLICATIONS.
 - 8) TOLERANCE = $\pm 1 \mu\text{m}$.

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

PART NUMBER SYSTEM					
TD	-	2	-	4.0	- DIF
SILICON TEST DIE		BOND PADS		DIE SIZE (mm)	DIFFERENTIAL PAIR

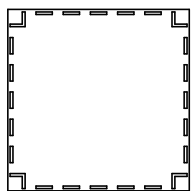
TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.XX	+/- 0.01	DRAWN J. HINES	5/8/2010	TITLE Si TEST DIE TD SERIES			
X.XXX	+/- 0.005						
X.XXXX	+/- 0.0005						
ANGLES	+/- 0.5°	ENG		SCALE 30:1 SIZE A DRAWING NO. 154002 REV A			
ALL DIMENSIONS IN <input checked="" type="checkbox"/> INCHES <input type="checkbox"/> MILLIMETERS		MFG					
THIRD ANGLE PROJECTION		QA					
		CUST		DO NOT SCALE DRAWING SHEET 1 OF 1			
		REVISED					

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



Notes: (Unless Otherwise Specified).

- 1) DIE MATERIAL IS SILICON.
- 2) DIE THICKNESS IS 250 μm (10 MIL).
- 3) METALLIZATION 1.0 μm ALUMINUM (Al) OVER 0.75 μm SiO₂.
- 4) DIE IS WITHOUT PASSIVATION.
- 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
- 6) DAISY CHAIN PAIRS (24 PLACES).
- 7) TOLERANCE = $\pm 1 \mu\text{m}$.



SCALE 6:1

DIMENSIONS IN MICRONS
1000 μm = 1.0mm

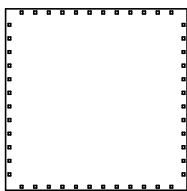
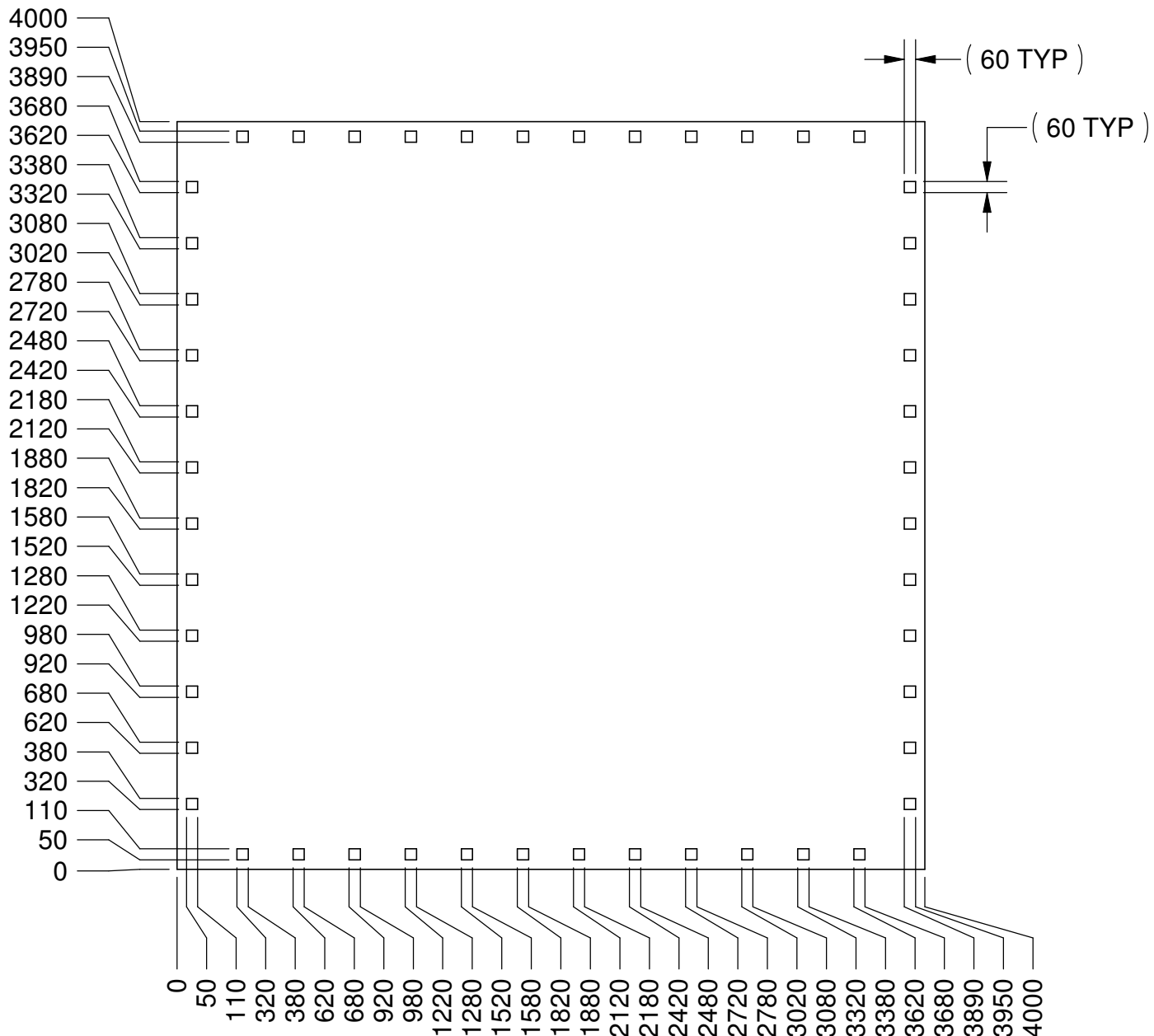
PART NUMBER SYSTEM						
TD	-	24	-	4.0	-	DC
SILICON TEST DIE		BOND PADS		DIE SIZE (mm)		DAISY CHAIN

TOLERANCE UNLESS NOTED	
X.XX	+/- 0.01
X.XXX	+/- 0.005
X.XXXX	+/- 0.0005
ANGLES	+/- 0.5°
ALL DIMENSIONS IN	
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS
THIRD ANGLE PROJECTION	

APPROVALS	DATE
DRAWN J. HINES	5/8/2010
ENG	
MFG	
QA	
CUST	
REVISED	

TITLE			
Si TEST DIE TD SERIES			
SCALE	SIZE	DRAWING NO.	REV
30:1	A	154024	A
DO NOT SCALE DRAWING		SHEET 1 OF 1	

REVISIONS				
DATE	REV.	ECO	DESCRIPTION	APPROVED



SCALE 6:1

- Notes: (Unless Otherwise Specified).
- 1) DIE MATERIAL IS SILICON.
 - 2) DIE THICKNESS IS 250 um (10 MIL).
 - 3) METALLIZATION 1.0 um ALUMINUM (Al) OVER 0.75 um SiO₂.
 - 4) DIE IS WITHOUT PASSIVATION.
 - 5) WIRE BONDABLE WITH GOLD (Au) OR ALUMINUM (Al) WIRE.
 - 6) ISOLATED PADS 60 um SQUARE (48 PLACES).
 - 7) TOLERANCE = ±1 um.

DIMENSIONS IN MICRONS
1000 um = 1.0mm

PART NUMBER SYSTEM						
TD	-	48	-	4.0	-	ISO
SILICON TEST DIE	BOND PADS	DIE SIZE (mm)	ISOLATED PADS			

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.XX	+/- 0.01	DRAWN J. HINES	5/8/2010	TITLE Si TEST DIE TD SERIES			
X.XXX	+/- 0.005						
X.XXXX	+/- 0.0005						
ANGLES	+/- 0.5°	ENG		SCALE 30:1 SIZE A DRAWING NO. 154048 REV A			
ALL DIMENSIONS IN		MFG					
<input checked="" type="checkbox"/> INCHES	<input type="checkbox"/> MILLIMETERS	QA					
THIRD ANGLE PROJECTION		CUST		DO NOT SCALE DRAWING SHEET 1 OF 1			
		REVISED					