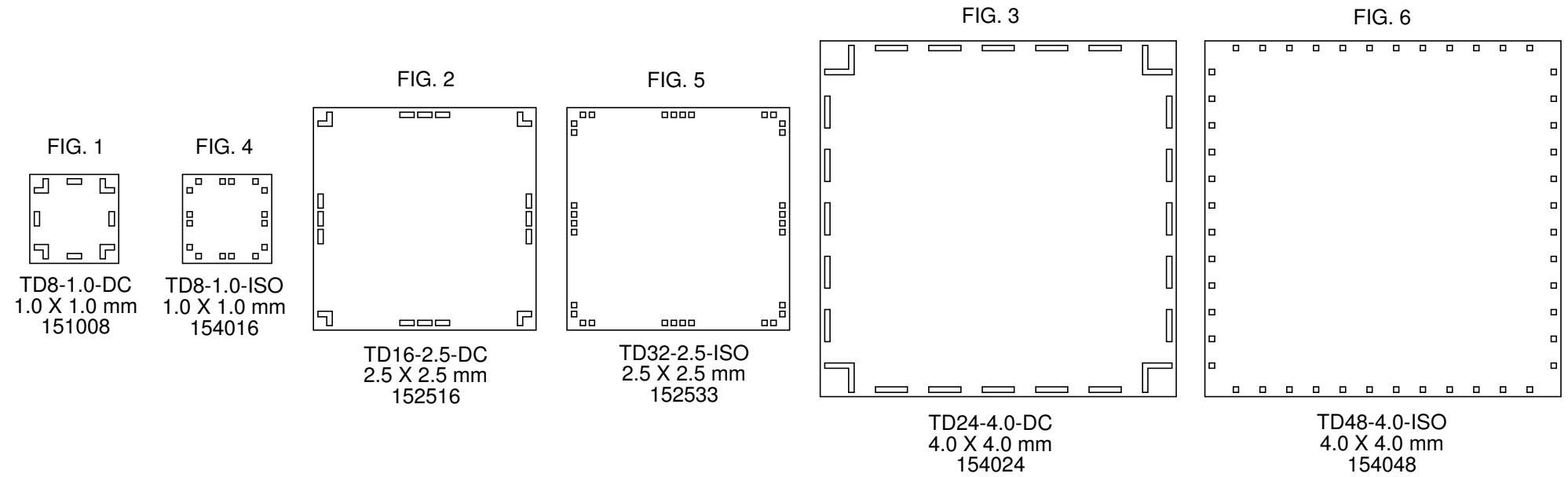

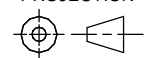


RECOMMENDED QFN PACKAGE

WIRE BONDABLE TEST DIE					QFN 3X3mm PAD 1.4mm			QFN 4X4mm PAD 2.4mm			QFN 5X5mm PAD 3.4mm		QFN 6X6mm PAD 4.4mm		QFN 7X7mm PAD 5.4mm	QFN 8X8mm PAD 6.4mm	QFN 9X9mm PAD 7.4mm	QFN 10X10mm PAD 8.4mm	QFN 12X12mm PAD 10mm	
SIZE SQUARE	PADS	PART NUMBER	DRAWING NUMBER	DIE FIG.	8L 0.65mm	12L 0.5mm	16L 0.5mm	16L 0.65mm	20L 0.5mm	24L 0.5mm	32L 0.5mm	40L 0.4mm	40L 0.5mm	48L 0.4mm	48L 0.5mm	56L 0.5mm	64L 0.5mm	72L 0.5mm	80L 0.5mm	
1.0mm	8	TD8-1.0-DC	151008 (A2)	1	X	X	X													
	16	TD16-1.0-ISO	151016 (A1)	4				X	X	X										
2.5mm	16	TD16-2.5-DC	152516 (B2)	2				X	X	X	X									
	32	TD32-2.5-ISO	152533 (B1)	5							X	X	X							
4.0mm	24	TD24-4.0-DC	154024 (C3)	3									X	X	X					
	48	TD48-4.0-ISO	154048 (C1)	6												X	X	X	X	

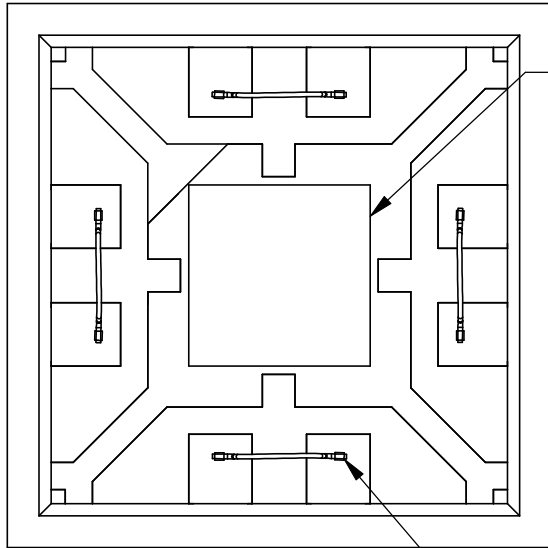


TOLERANCE UNLESS NOTED		APPROVALS		DATE						
X.X	+/- 0.3	DRAWN J. Hines		2/18/2011						TITLE TD TEST DIE QFN PACKAGE REFERENCE
X.XX	+/- 0.03	ENG		MFG		SCALE 15:1				
X.XXX	+/- 0.003	QA		CUST						SIZE A
ANGLES +/- 0.5°		THIRD ANGLE PROJECTION		REVISED		DO NOT SCALE DRAWING				SHEET 1 OF 1
ALL DIMENSIONS IN		<input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS								

DAISY CHAIN TYPE 1
WIRE BOND TO LEAD FRAME

(STANDARD)

N 7



DUMMY DIE (Si)
WITHOUT PATTERNS

WIRE BOND DIE
TO LEAD FRAME

NET LIST:

- 1-2
- 3-4
- 5-6
- 7-N
- ETC

1
2

6
5

3 4

APPLICATION (TYPE 1):

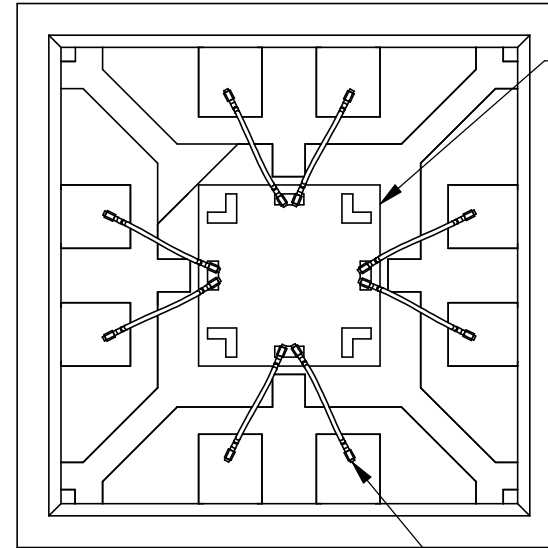
- 1) VERIFY REFLOW TEMPERATURE PROFILE.
- 2) EVALUATION OF SOLDER PASTE.
- 3) SIMULATE SMT BOARD LEVEL ASSEMBLY PROCESS.
- 4) DUMMY DIE ADDS WEIGHT AND DISTRIBUTES HEAT.
- 5) CONTINUITY TESTING.

PRICE: LOW

DAISY CHAIN TYPE 2
WIRE BOND TO DIE PADS

(SPECIAL)

N 7



DUMMY DIE (Si)
WITH PATTERNS

WIRE BOND DIE
TO LEAD FRAME

NET LIST:

- 1-2
- 3-4
- 5-6
- 7-N
- ETC

6
5

3 4

APPLICATION (TYPE 2):

- 1) EVALUATION OF SILICON INSIDE PACKAGE.
- 2) SIMULATES ELECTRICALLY FUNCTIONAL PACKAGE.
- 3) ENVIRONMENTAL PROCESS.
- 4) WIRE BOND PRACTICE.
- 5) CONTINUITY TESTING.

PRICE: HIGH

PACKAGE Notes: (Unless Otherwise Specified).

- 1) TYPES: QFN.
- 2) CONSTRUCTION: OVERMOLDED OR OPEN-CAVITY.
- 3) STANDARD DAISY CHAIN PATTERN: PIN 1-2, 3-4, 5-6, 7-N, ETC.
- 4) CUSTOMIZED DAISY CHAIN PATTERNS AVAILABLE.

TOLERANCE UNLESS NOTED		APPROVALS		DATE		TopLine [®]			
X.X	+/- 0.3	DRAWN J. Hines		2/18/2011					
X.XX	+/- 0.03	ENG				SCALE 24:1			
X.XXX	+/- 0.003	MFG							
ANGLES +/- 0.5°		QA				DRAWING NO. 150900			
ALL DIMENSIONS IN <input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS		CUST							
THIRD ANGLE PROJECTION		REVISED				DO NOT SCALE DRAWING			