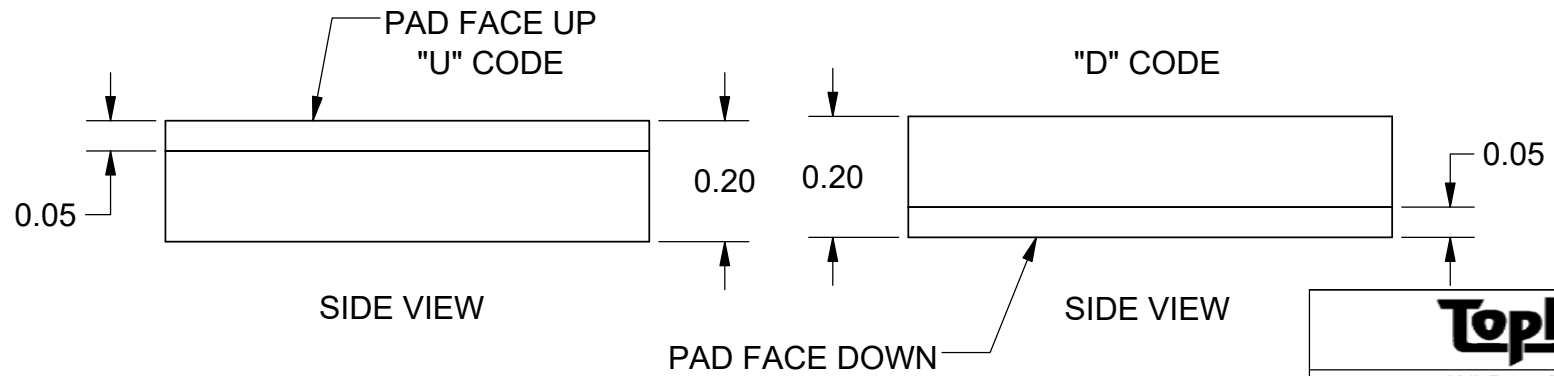
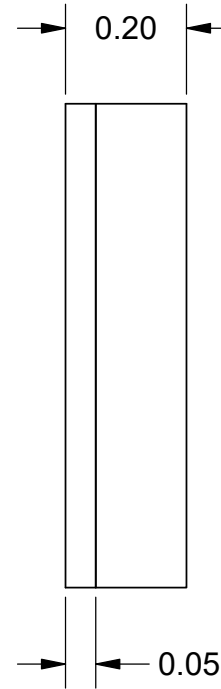
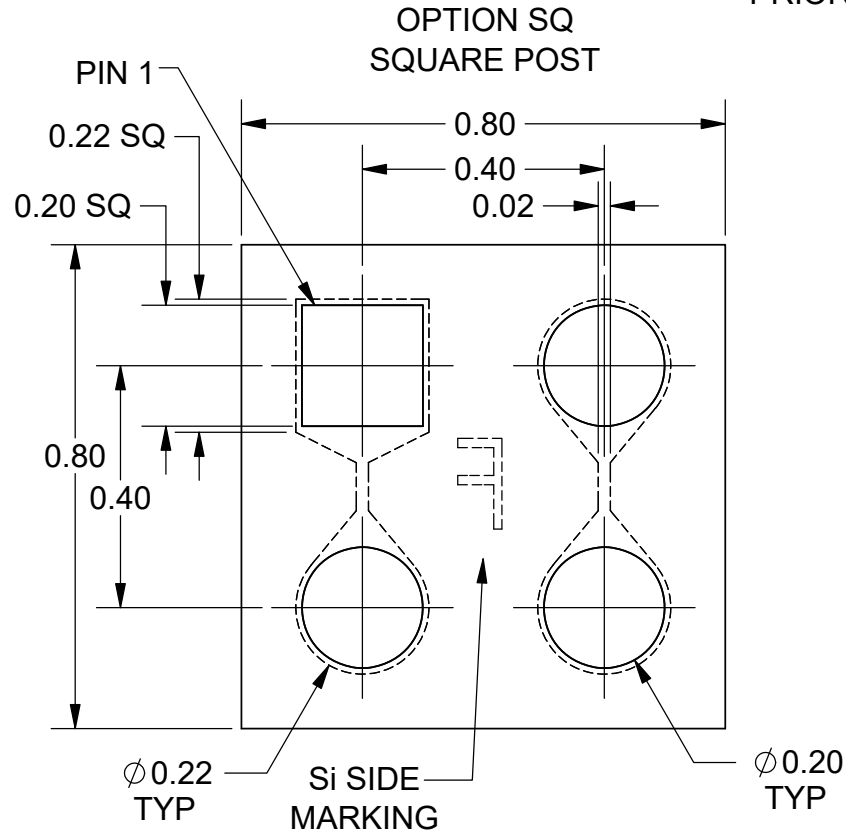


- Notes: (Unless Otherwise Specified).
- 1) ALL DIMENSIONS ARE IN MM.
 - 2) PAD ALLOY: Cu (50 μ m THICK).
 - 3) PAD Cu DIAMETER ϕ 0.20.
 - 4) SIE MATERIAL: Si (SILICON).
 - 5) DAISY CHAIN PATTERN (SEE PAGE 2).

TOLERANCE UNLESS NOTED		APPROVALS	DATE				
X.X	+/- 0.3						
X.XX	+/- 0.03						
X.XXX	+/- 0.003	ENG M. Hart	12/9/2018	SCALE 15:1 SIZE A DRAWING NO. 141680 REV A			
ANGLES +/- 0.5°		MFG					
ALL DIMENSIONS IN		QA		DO NOT SCALE DRAWING			
<input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS		CUST					
THIRD ANGLE PROJECTION		REVISED					

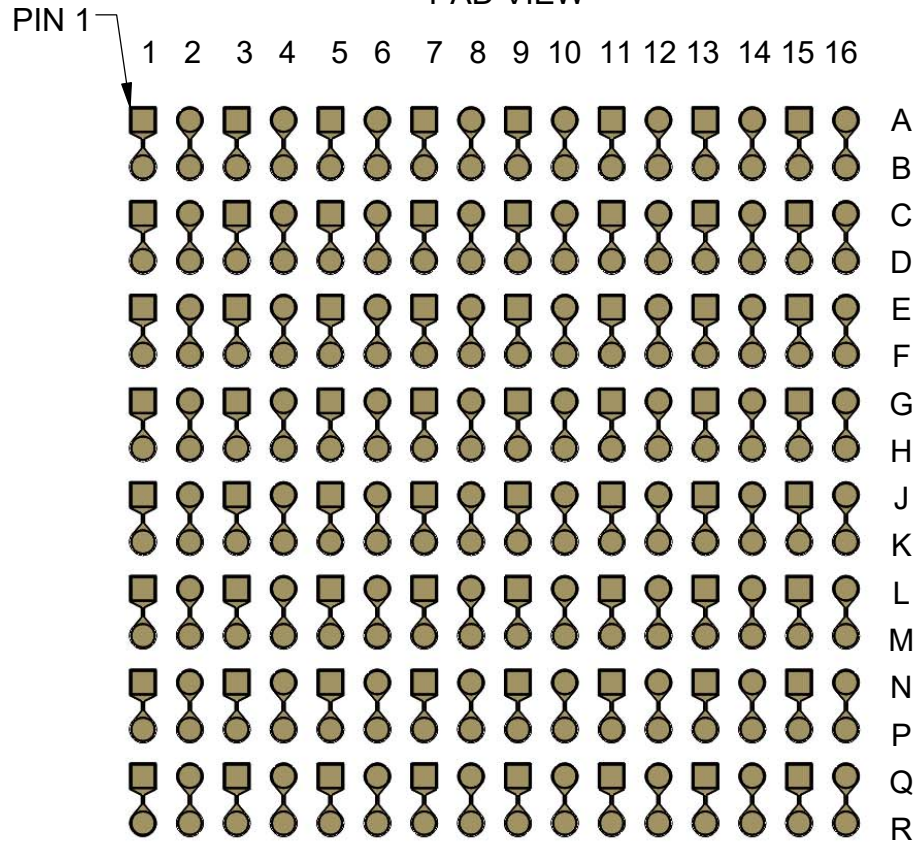
DETAIL B
COPPER POST
PRIOR TO DICING



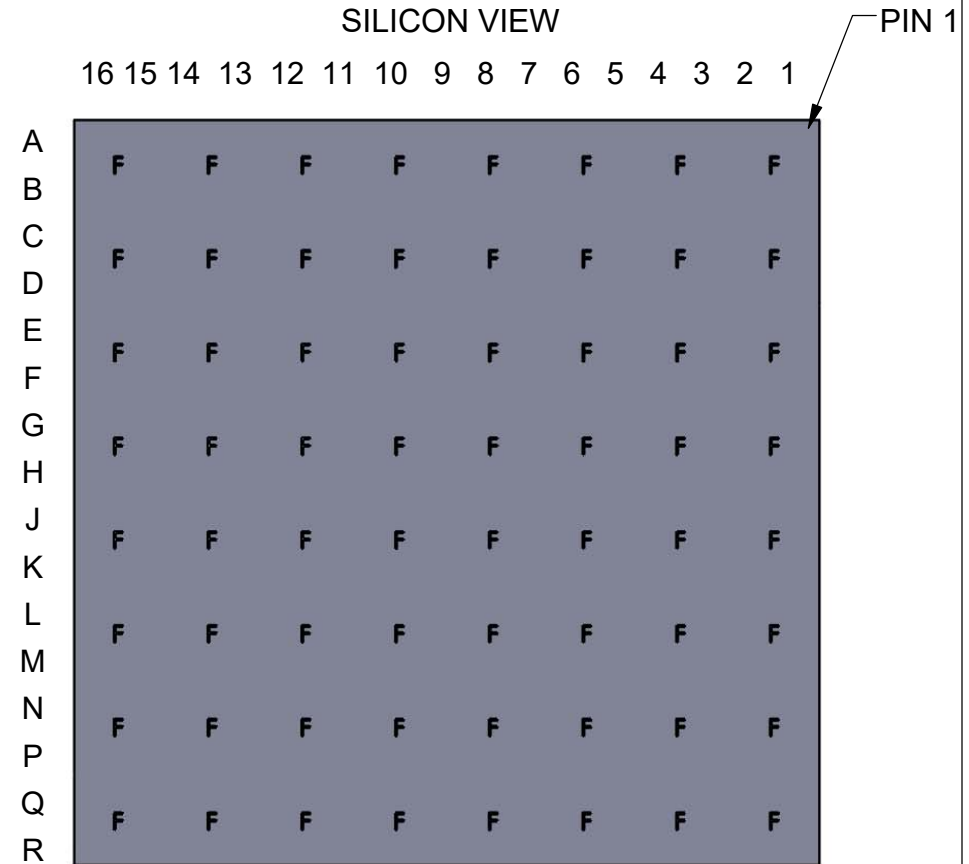
TopLine [®]			
TITLE eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE 80:1	SIZE A	DRAWING NO. 141680	REV A
DO NOT SCALE DRAWING			SHEET 2 OF 8

DAISY CHAIN PATTERN SHOWN WITH SQUARE PADS

PAD VIEW



SILICON VIEW



TopLine[®]

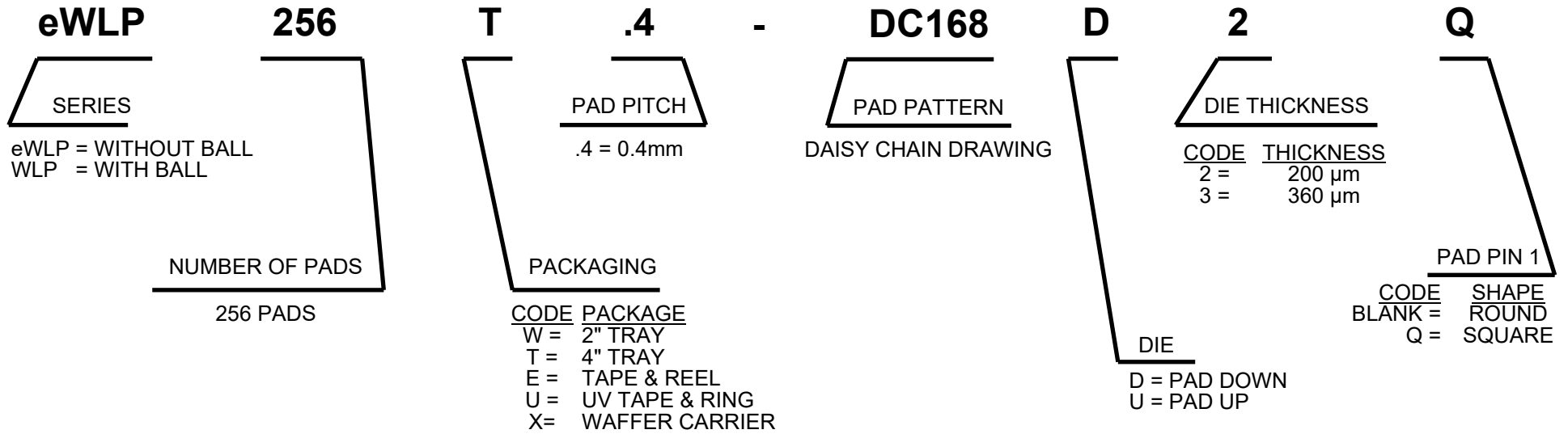
TITLE eWLP256T.4-DC168
256-L P=0.4mm (TEG0408)

SCALE 15.5:1	SIZE A	DRAWING NO. 141680	REV A
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DO NOT SCALE DRAWING

SHEET 3 OF 8

PART NUMBERING SYSTEM



TopLine®			
TITLE eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE 20.5:1	SIZE A	DRAWING NO. 141680	REV A
DO NOT SCALE DRAWING		SHEET 4 OF 8	

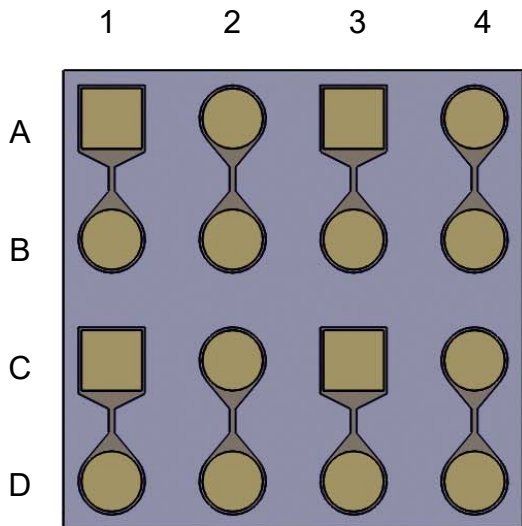
PART NUMBER TABLE

DWG	PART NUMBER	DIE THICKNESS	PAD PIN 1	PAD UP/DOWN	PACKAGING
SQUARE PIN 1 PAD					
141687	eWLP256W.4-DC168U2Q	200 µm	SQ	UP	2-INCH TRAY
141688	eWLP256W.4-DC168D2Q	200 µm	SQ	DOWN	2-INCH TRAY
141689	eWLP256T.4-DC168U2Q	200 µm	SQ	UP	4-INCH TRAY
141680	eWLP256T.4-DC168D2Q	200 µm	SQ	DOWN	4-INCH TRAY
141681	eWLP256E.4-DC168D2Q	200 µm	SQ	DOWN	TAPE & REEL
141682	eWLP256E.4-DC168D2Q	200 µm	SQ	DOWN	CUT TAPE
141683	eWLP256U.4-DC168U2Q	200 µm	SQ	UP	SAWN WAFER - UV TAPE & RING
141685	eWLP256X.4-DC168U2Q	200 µm	SQ	UP	UNSAWN WAFER



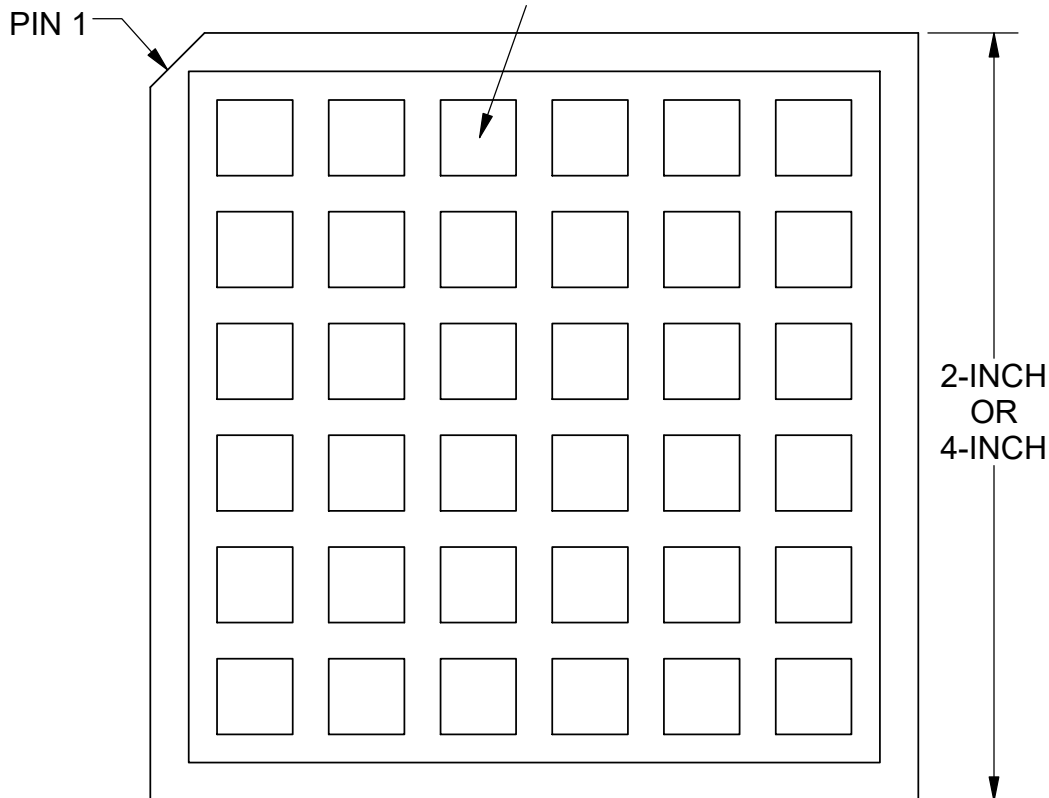
TITLE			
eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE	SIZE	DRAWING NO.	REV
20.5:1	A	141680	A
DO NOT SCALE DRAWING			SHEET 5 OF 8

SQ PAD UPPER LEFT
DAISY CHAIN SIMULATION
SCALE= 40:1



PAD SIDE UP ORIENTATION
WAFFLE PACK

TYPICAL WAFFLE PACK
IC CHIP TRAY
SCALE = 2:1



NUMBER OF POCKETS WILL CHANGE
BASED ON THE SIZE OF THE WLP CHIP

DAISY CHAIN WITH
SQ PAD SHOWN IN UPPER LEFT

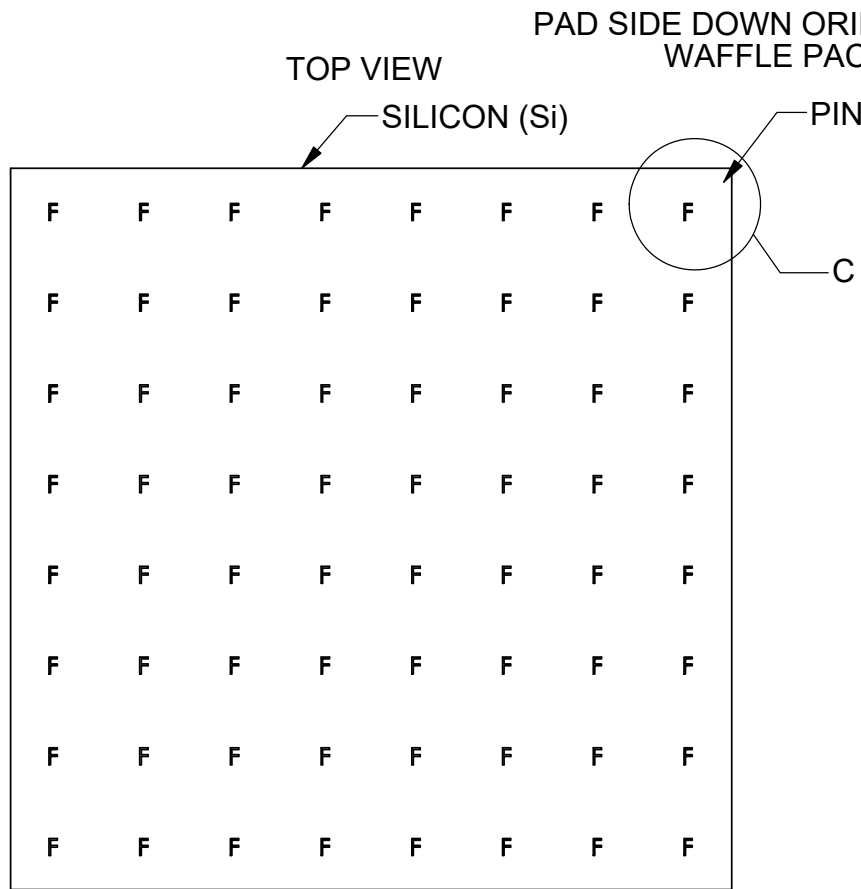


Notes: (Unless Otherwise Specified).

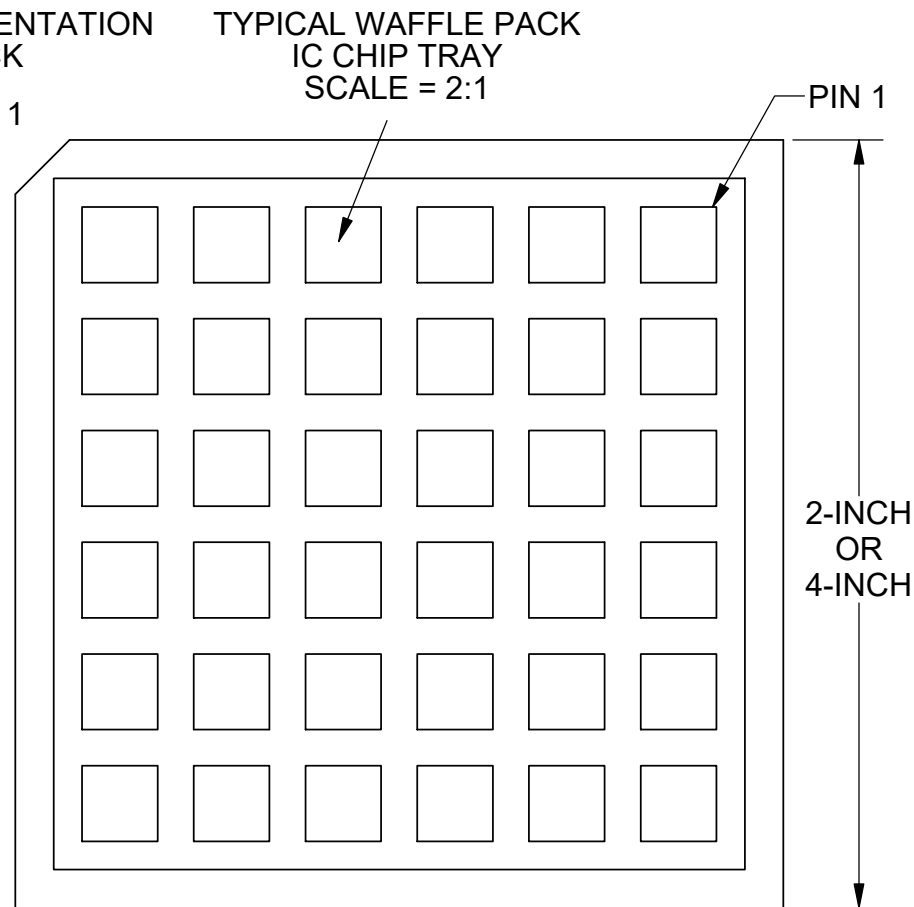
- 1) EXAMPLE OF TOP SIDE LASER MARKING.
- 2) ORIENT LETTERS FOR LOCATION OF PIN A1 CORNER.
- 3) ALLOWABLE LETTER MARKING: A, F, T, M, L, Y, AND P.
- 4) SINGLE LETTER IS REPEATED MULTIPLE TIMES ACROSS TOP SIDE.
- 5) DAISY CHAIN IS HIDDEN UNDER RESIN ON BALL SIZE.
- 6) TOP SIDE DOES NOT HAVE A DOT FOR LOCATION OF PIN A1.
- 7) LETTERS ARE NOT MARKED ON BOTTOM (BALL) SIDE.

MARKING CODE	
PITCH	LETTER
0.3MM	A
0.4MM	F
0.5MM	P

TopLine [®]			
TITLE eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE 12.5:1	SIZE A	DRAWING NO. 141680	REV A
DO NOT SCALE DRAWING			SHEET 6 OF 8

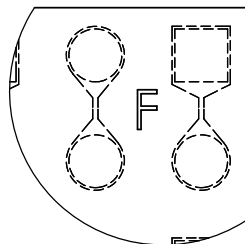


EXAMPLE ORIENTATION
OF MARKINGS ON eWLP



NUMBER OF POCKETS WILL CHANGE
BASED ON THE SIZE OF THE WLP CHIP

DAISY CHAIN VIEWED THRU DIE



DAISY CHAIN
ORIENTATION
DETAIL C
SCALE 35 : 1

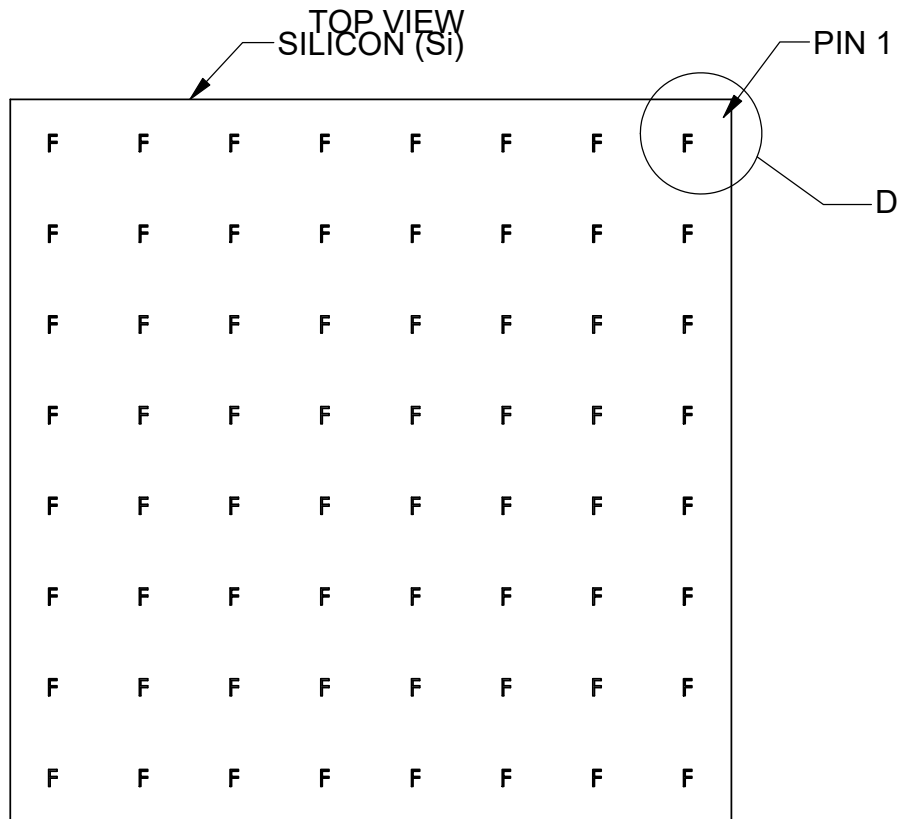
Notes: (Unless Otherwise Specified).

- 1) EXAMPLE OF TOP SIDE LASER MARKING.
- 2) ORIENT LETTERS FOR LOCATION OF PIN A1 CORNER.
- 3) ALLOWABLE LETTER MARKING: A, F, T, M, L, Y, AND P.
- 4) SINGLE LETTER IS REPEATED MULTIPLE TIMES ACROSS TOP SIDE.
- 5) DAISY CHAIN IS HIDDEN UNDER RESIN ON BALL SIZE.
- 6) TOP SIDE DOES NOT HAVE A DOT FOR LOCATION OF PIN A1.
- 7) LETTERS ARE NOT MARKED ON BOTTOM (BALL) SIDE.

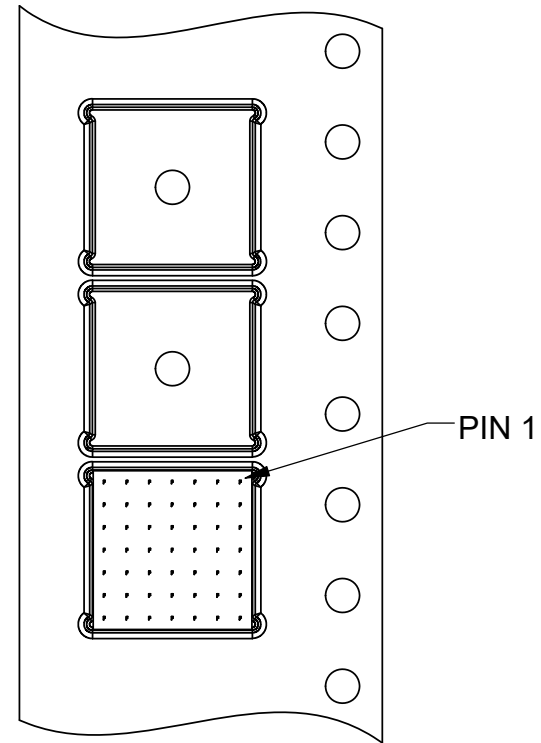
MARKING CODE	
PITCH	LETTER
0.3MM	A
0.4MM	F
0.5MM	P

TopLine [®]			
TITLE eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE 15:1	SIZE A	DRAWING NO. 141680	REV A
DO NOT SCALE DRAWING		SHEET 7 OF 8	

eWLP ORIENTATION
TAPE AND REEL

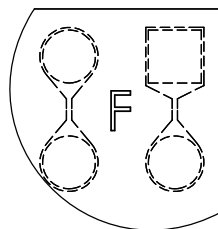


EXAMPLE ORIENTATION
OF MARKINGS ON eWLP



DIRECTION OF FEED

DAISY CHAIN VIEWED THRU DIE



DAISY CHAIN
ORIENTATION
DETAIL D
SCALE 35 : 1

Notes: (Unless Otherwise Specified).

- 1) EXAMPLE OF TOP SIDE LASER MARKING.
- 2) ORIENT LETTERS FOR LOCATION OF PIN A1 CORNER.
- 3) ALLOWABLE LETTER MARKING: A, F, T, M, L, Y, AND P.
- 4) SINGLE LETTER IS REPEATED MULTIPLE TIMES ACROSS TOP SIDE.
- 5) DAISY CHAIN IS HIDDEN UNDER RESIN ON PAD SIZE.
- 6) TOP SIDE DOES NOT HAVE A DOT FOR LOCATION OF PIN A1.
- 7) LETTERS ARE NOT MARKED ON BOTTOM PAD SIDE.

MARKING CODE	
PITCH	LETTER
0.3MM	A
0.4MM	F
0.5MM	P

TopLine [®]			
TITLE eWLP256T.4-DC168 256-L P=0.4mm (TEG0408)			
SCALE 20:1	SIZE A	DRAWING NO. 141680	REV A
DO NOT SCALE DRAWING		SHEET 8 OF 8	