



DETAIL A

DETAIL B



TITLE: PACKAGE OUTLINE 32, 44, 48, 56L THIN QFN, 7x7x0.75mm		
APPROVAL BRIAN ESTILLERO 11/28/12	DOCUMENT CONTROL NO. 21-0144	REV. K 1/2

-DRAWING NOT TO SCALE-

COMMON DIMENSIONS

PKG	32L 7x7			44L 7x7			48L 7x7			CUSTOM PKG. (T4877-1) 48L 7x7			56L 7x7		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80
A1	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05	0	-	0.05
A2	0.20 REF.			0.20 REF.			0.20 REF.			0.20 REF.			0.20 REF.		
b	0.25	0.30	0.35	0.20	0.25	0.30	0.20	0.25	0.30	0.20	0.25	0.30	0.15	0.20	0.25
D	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10
E	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10
e	0.65 BSC.			0.50 BSC.			0.50 BSC.			0.50 BSC.			0.40 BSC.		
k	0.25	-	-	0.25	-	-	0.25	-	-	0.25	-	-	0.25	-	-
L	0.45	0.55	0.65	0.45	0.55	0.65	0.30	0.40	0.50	0.45	0.55	0.65	0.30	0.40	0.50
N	32			44			48			44			56		
ND	8			11			12			10			14		
NE	8			11			12			12			14		

EXPOSED PAD VARIATIONS

PKG. CODES	DEPOPULATED LEADS	D2			E2			JEDEC MO220 REV. C
		MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
T3277-2	-	4.55	4.70	4.85	4.55	4.70	4.85	-
T3277-3	-	4.55	4.70	4.85	4.55	4.70	4.85	-
T4477-2	-	4.55	4.70	4.85	4.55	4.70	4.85	WKKD-1
T4477-3	-	4.55	4.70	4.85	4.55	4.70	4.85	WKKD-1
T4877-3	-	4.95	5.10	5.25	4.95	5.10	5.25	-
T4877-4	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T4877-6	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T4877-7	-	4.95	5.10	5.25	4.95	5.10	5.25	-
T4877M-1	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T4877M-6	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T4877MN-8	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T4877N-8	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T5677-1	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T5677MN-1	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T5677-2	-	5.40	5.50	5.60	5.40	5.50	5.60	-
T5677-3	-	5.40	5.50	5.60	5.40	5.50	5.60	-

NOTES:

- DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
- ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
- N IS THE TOTAL NUMBER OF TERMINALS.
- THE TERMINAL #1 IDENTIFIER AND TERMINAL NUMBERING CONVENTION SHALL CONFORM TO JESD 95-1 SPP-012. DETAILS OF TERMINAL #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE.
- DIMENSION b APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25 mm AND 0.30 mm FROM TERMINAL TIP.
- ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
- DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
- COPLANARITY APPLIES TO THE EXPOSED HEAT SINK SLUG AS WELL AS THE TERMINALS.
- DRAWING CONFORMS TO JEDEC MO220 EXCEPT THE EXPOSED PAD DIMENSIONS OF T4877-3/-4/-6 & T5677-1.
- WARPAGE SHALL NOT EXCEED 0.10 mm.
- MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
- NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
- ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbFREE (+) PKG. CODES.

CORNER LEAD CHAMFER VARIATION

PKG. CODES	C
T4877-3	0.115 X 45°
T4877-4	0.115 X 45°
T4877-6	0.115 X 45°
T4877-7	0.115 X 45°
T4877M-1	0.115 X 45°
T4877M-6	0.115 X 45°



TITLE:
PACKAGE OUTLINE
32, 44, 48, 56L THIN QFN, 7x7x0.75mm

APPROVAL
BRIAN ESTILLERO
11/28/12

DOCUMENT CONTROL NO.
21-0144

REV. 2/2
K

-DRAWING NOT TO SCALE-