

-DRAWING NOT TO SCALE-



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

APPROVAL
CHUCK XIA


DOCUMENT CONTROL NO.
21-0144

REV. X 1/3

EXPOSED PAD VARIATIONS								CORNER LEAD CHAMFER VARIATION C
PKG. CODES	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+2C	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	-	-
T3277+3C	4.55	4.70	4.85	4.55	4.70	4.85	-	-
T3277M+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+2C	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	-	0.115 X 45°
T4877+3C	4.95	5.10	5.25	4.95	5.10	5.25	-	0.115 X 45°
T4877+4	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+4C	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+6	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+6C	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+7	4.95	5.10	5.25	4.95	5.10	5.25	-	0.115 X 45°
T4877-7C	4.95	5.10	5.25	4.95	5.10	5.25	-	0.115 X 45°
T4877+10	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+10C	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+11	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+11C	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+12	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877M+1	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877M+6	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877MN+8	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877N+8	5.40	5.50	5.60	5.40	5.50	5.60	-	0.115 X 45°
T4877+9C	3.92	4.02	4.12	3.92	4.02	4.12	-	0.115 X 45°
T4877+9CA	3.92	4.02	4.12	3.92	4.02	4.12	-	0.115 X 45°
T5677+1	5.40	5.50	5.60	5.40	5.50	5.60	-	-
T5677+1C	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+2C	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	-	-

COMMON DIMENSIONS															
PKG	32L 7x7			44L 7x7			48L 7x7			CUSTOM PKG. (T4877+1) 48L 7x7			56L 7x7		
SYMBOL	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		

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NOTES:

1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-2009.
2. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
3. N IS THE TOTAL NUMBER OF TERMINALS.
4. 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.
5. DIMENSION b APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25 mm AND 0.30 mm FROM TERMINAL TIP.
6. ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
8. DRAWING CONFORMS TO JEDEC MO220 EXCEPT THE EXPOSED PAD DIMENSIONS OF T4877+3/+4/+6 & T5677+1.
9. WARPAGE SHALL NOT EXCEED 0.10 mm.
10. MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
11. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
12. MATERIAL MUST BE COMPLIANT WITH MAXIM SPECIFICATION 10-0131 FOR SUBSTANCE CONTENT, MUST BE EU ROHS COMPLIANT WITHOUT EXEMPTION AND PB-FREE.
13. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbfREE (+) PKG. CODES.



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