



TITLE:
PACKAGE OUTLINE,
8, 12, 16L THIN QFN, 3x3x0.75mm

APPROVAL

DOCUMENT CONTROL NO.
21-0136

REV. V 1/3

-DRAWING NOT TO SCALE-

PKG	8L 3x3			12L 3x3			16L 3x3		
REF.	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
b	0.25	0.30	0.35	0.20	0.25	0.30	0.20	0.25	0.30
D	3.00 BSC			3.00 BSC			3.00 BSC		
E	3.00 BSC			3.00 BSC			3.00 BSC		
e	0.65 BSC.			0.50 BSC.			0.50 BSC.		
L	0.35	0.55	0.75	0.45	0.55	0.65	0.30	0.40	0.50
N	8			12			16		
ND	2			3			4		
NE	2			3			4		
A1	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05
A2	0.20 REF			0.20 REF			0.20 REF		
k	0.25	-	-	0.25	-	-	0.25	-	-

EXPOSED PAD VARIATIONS									
PKG. CODES	D2			E2			PIN ID	JEDEC	
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.			
TQ833-1	0.25	0.70	1.25	0.25	0.70	1.25	0.35 x 45°	WEEC	
T1233-1	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-1	
T1233-1C	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-1	
T1233-3	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-1	
T1233-3C	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-1	
T1633-2	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-2	
T1633-2C	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-2	
T1633F-3	0.65	0.80	0.95	0.65	0.80	0.95	0.225 x 45°	WEED-2	
T1633FH-3	0.65	0.80	0.95	0.65	0.80	0.95	0.225 x 45°	WEED-2	
T1633-4	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-2	
T1633-4C	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-2	
T1633MK-5	0.95	1.10	1.25	0.95	1.10	1.25	0.35 x 45°	WEED-2	

EXPOSED PAD VARIATIONS										
PKG. CODES	D2			E2			L			PIN ID
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
T1233-4	0.95	1.10	1.25	0.95	1.10	1.25	0.35	0.45	0.55	0.35 x 45°
T1233-4C	0.95	1.10	1.25	0.95	1.10	1.25	0.35	0.45	0.55	0.35 x 45°
T1233-5C	1.50	1.60	1.70	1.50	1.60	1.70	0.40	0.45	0.50	0.35 x 45°
T1633-5	0.95	1.10	1.25	0.95	1.10	1.25	0.25	0.35	0.45	0.35 x 45°
T1633-5C	0.95	1.10	1.25	0.95	1.10	1.25	0.25	0.35	0.45	0.35 x 45°
T1633-7C	0.95	1.10	1.25	0.95	1.10	1.25	0.25	0.35	0.45	0.35 x 45°



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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
2. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5-2009.
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 0.20 mm AND 0.25 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 REVISION C. T1233-4, T1233-4C, T1233-5C, T1633-5, T1633-5C AND T1633-7C WITH CUSTOM LEAD DIMENSION.
9. MARKING SHOWN IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
10. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
11. WARPAGE NOT TO EXCEED 0.10mm.
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 Pb FREE (+) PARTS.



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