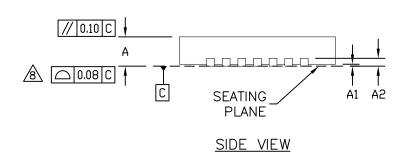
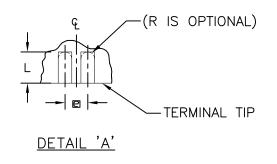
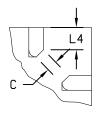


BOTTOM VIEW







CORNER LEAD CHAMFER VARIATION

DETAIL 'B'



maxim integrated_™

TITLE:

PACKAGE DUTLINE 12,16,20,24,28L TQFN 4×4×0.75mm

APPROVAL

DOCUMENT CONTROL NO. 21-0139

COMMON DIMENSIONS															
COMMON DIMENSIONS															
PKG	PKG 12L 4×4			16L 4×4			20L 4×4			24L 4×4			28L 4×4		
REF.	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.
Α	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	0.02	0.05	0.0	0.02	0.05	0.0	0.02	0.05	0.0	0.02	0.05	0.0	0.02	0.05
A2	A2 0.20 REF			0.20 REF			0.20 REF			0.20 REF			0.20 REF		
b	0.25	0.30	0.35	0.25	0.30	0.35	0.20	0.25	0.30	0.18	0.23	0.30	0.15	0.20	0.25
D	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10
Ε	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10
е	e 0.80 BSC.			0.65 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	0.45	0.55	0.65	0.30	0.40	0.50	0.30	0.40	0.50
N	12		16		20		24			28					
ND	3		4		5		6			7					
NE	3		4		5		6			7					
Jedec Var.	ec WGGB				WGGC			WGGD-1		WGGD-2			WGGE		

PKG		D2		E2			L			R (LEAD TIP RADIUS)
PKG. CODE	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	
T2044-4	2.85	2.90	2.95	2.85	2.90	2.95	0.25	0.30	0.35	0.125 REF
T2044-4C	2.85	2.90	2.95	2.85	2.90	2.95	0.25	0.30	0.35	0.125 REF
T2044-5	2.60	2.70	2.80	2.60	2.70	2.80	0.35	0.40	0.45	0.203 REF

EXPOSED PAD VARIATIONS									
PKG.		D2		E2					
CODES	MIN. N□M.		MAX.	MIN.	N□M.	MAX.			
T1244-3	1.95	2.10	2.25	1.95	2.10	2.25			
T1244-4	1.95	2.10	2.25	1.95	2.10	2.25			
T1644-3	1.95	2.10	2.25	1.95	2.10	2.25			
T1644-4	1.95	2.10	2.25	1.95	2.10	2.25			
T1644-4C	1.95	2.10	2.25	1.95	2.10	2.25			
T2044-2	1.95	2.10	2.25	1.95	2.10	2.25			
T2044-3	1.95	2.10	2.25	1.95	2.10	2.25			
T2444-2	1.95	2.10	2.25	1.95	2.10	2.25			
T2444-3	2.45	2.60	2.63	2.45	2.60	2.63			
T2444-3C	2.45	2.60	2.63	2.45	2.60	2.63			
T2444-4	2.45	2.60	2.63	2.45	2.60	2.63			
T2444-4C	2.45	2.60	2.63	2.45	2.60	2.63			
T2444N-4	2.45	2.60	2.63	2.45	2.60	2.63			
T2444M-1	2.45	2.60	2.63	2.45	2.60	2.63			
T2444MK-1	2.45	2.60	2.63	2.45	2.60	2.63			
T2844-1	2.50	2.60	2.70	2.50	2.60	2.70			
T2844-1C	2.50	2.60	2.70	2.50	2.60	2.70			
T2844N-1	2.65	2.70	2.75	2.65	2.70	2.75			

CORNER LEAD CHAMFER VARIATION										
PKG. CDDES		(L4							
T2444-2	0.120	Χ	45°	REF	0.31	REF				
T2444-3	0.120	Χ	45*	REF	0.31	REF				
T2444-3C	0.120	Χ	45°	REF	0.31	REF				
T2444-4	0.120	Χ	45°	REF	0.31	REF				
T2444-4C	0.120	Χ	45°	REF	0.31	REF				
T2444M-1	0.120	Χ	45°	REF	0.31	REF				
T2444MK-1	0.120	Χ	45°	REF	0.31	REF				
T2444N-4	0.120	Χ	45°	REF	0.31	REF				



TITLE:
PACKAGE DUTLINE
12,16,20,24,28L TQFN 4×4×0.75mm

APPROVAL DOCUMENT CONTROL NO.
21-0139

NOTES:

- 1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS, ANGLES ARE IN DEGREES.
- 3. 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 & APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25mm AND 0.30mm FROM TERMINAL TIP.
- MD AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
- 7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
- 2. COPLANARITY APPLIES TO THE EXPOSED HEAT SINK SLUG AS WELL AS THE TERMINALS.
- 9. DRAWING CONFORMS TO JEDEC MO220, EXCEPT FOR T2444-3, T2444-4 AND T2844-1.
- 10 MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
- 11. COPLANARITY SHALL NOT EXCEED 0.08mm.
- 12. WARPAGE SHALL NOT EXCEED 0.10mm.
- 13 LEAD CENTERLINES TO BE AT TRUE POSITION AS DEFINED BY BASIC DIMENSION "e", ±0.05.
- 14. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
- 15. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC # 10-0131.
- 16. ALL DIMENSIONS ARE THE SAME FOR LEADED (-) & PbFREE (+) PACKAGE CODES.



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12,16,20,24,28L TQFN 4×4×0.75mm

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REV.