

DIMENSION VARIATION								
PKG.	D2 E2						L	
CDDES	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	±0.10	
T1655+2	3.00	3.10	3.20	3.00	3.10	3.20		
T1655+2C	3.00	3.10	3.20	3.00	3.10	3.20		
T1655+3	3.00	3.10	3,20	3,00	3,10	3.20		
T1655+3C	3.00	3.10	3.20	3.00	3.10	3.20		
T1655+4	2.19	2.29	2.39	2.19	2.29	2.39		
T1655+4C	2.19	2.29	2.39	2.19	2.29	2.39		
T1655N+1	3.00	3.10	3.20	3.00	3.10	3.20		
T2055+3	3.00	3.10	3.20	3.00	3.10	3.20		
T2055+3C	3.00	3.10	3.20	3.00	3.10	3.20		
T2055M+3	3.00	3.10	3.20	3.00	3.10	3.20		
T2055+4	3.00	3.10	3.20	3.00	3.10	3.20		
T2055+4C	3.00	3.10	3.20	3.00	3.10	3.20		
T2055+5	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2055+5C	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2055MN+5	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2055+6C	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2855+3	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+3C	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+4	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+4C	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+5	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+5C	2.60	2.70	2.80	2.60	2.70	2.80		
T2855M+5	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+6	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+6A	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+6C	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+7	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+7C	2.60	2.70	2.80	2.60	2.70	2.80		
T2855+8	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2855+8C	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2855MK+8	3.15	3.25	3.35	3.15	3.25	3.35	0.40	
T2855N+1	3.15	3.25	3.35	3.15	3.25	3.35		
T2855+13	3.15	3.25	3.35	3.15	3.25	3.35	0.40	

COMMON DIMENSIONS															
PKG.	16L 5×5		×5	20L 5×5		28L 5×5		32L 5×5		40L 5×5					
SYMBOL	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	0.02	0.05	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05
A2	0.20 REF.		F.	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	0.20	0.25	0.30	0.15	0.20	0.25
D	5.00 BSC		SC	5.00 BSC		5.00 BSC		5.00 BSC		5.00 BSC					
E	5	.00 B	SC	5.00 BSC		5.00 BSC		5	.00 B	SC	5.00 BSC		SC		
e	0.	80 BS	SC.	0.65 BSC.		0.50 BSC.		0.50 BSC.		SC.	0.40 BSC.				
k	0.25	_	-	0.25	_	-	0.25	_	-	0.25	-	_	0.25	-	_
L	0.30	0.40	0.50	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		16		20		28		32		40					
ND	4 5			7		8		10							
NE	4			5		7		8		10					
JEDEC	١	WHHB		١	√HHC		WHHD-1		WHHD-2						



PACKAGE DUTLINE, 16,20,28,32,40L
THIN QFN, 5×5×0.75mm

APPROVAL DOCUMENT CONTROL NO. RE
21-0140 A

REV. AL

	DIMENSION VARIATION								
PKG.	D2				L				
CODES	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	±0.10		
T3255+3	3.00	3.10	3,20	3.00	3.10	3.20			
T3255+3C	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+4	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+4C	3.00	3.10	3.20	3.00	3.10	3.20			
T3255M+4	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+5	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+5C	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+6	2.00	2.10	2.20	2.00	2.10	2.20			
T3255+6C	2.00	2.10	2.20	2.00	2.10	2,20			
T3255+7	3.00	3.10	3,20	3.00	3.10	3.20			
T3255+7C	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+8	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+8C	3.00	3.10	3.20	3.00	3.10	3.20			
T3255+9	3.30	3.40	3.50	3.30	3.40	3.50			
T3255M+5	3.00	3.10	3.20	3.00	3.10	3.20			
T3255MK+1	3.00	3.10	3.20	3.00	3.10	3.20			
T3255MK+2	3.00	3.10	3.20	3.00	3.10	3.20			
T3255N+1	3.00	3.10	3.20	3.00	3.10	3.20			
T3255MN+1	3.00	3.10	3.20	3.00	3.10	3.20			
T4055+1	3,40	3.50	3.60	3,40	3.50	3.60			
T4055+1C	3,40	3.50	3.60	3,40	3.50	3.60			
T4055+2	3.40	3.50	3.60	3.40	3.50	3.60			
T4055+2C	3.40	3.50	3.60	3.40	3.50	3.60			

C⊡RNER LEAD CHAMFER ∨ARIATI⊡N						
PKG. CDDES	С	L4				
T3255+3	0.120 X 45° REF	0.31 REF				
T3255+3C	0.120 X 45° REF	0.31 REF				
T3255+4	0.120 X 45° REF	0.31 REF				
T3255+4C	0.120 X 45° REF	0.31 REF				
T3255+5	0.120 X 45° REF	0.31 REF				
T3255+5C	0.120 X 45° REF	0.31 REF				
T3255+6	0.120 X 45° REF	0.31 REF				
T3255+6C	0.120 X 45° REF	0.31 REF				
T3255+7	0.120 X 45° REF	0.31 REF				
T3255+7C	0.120 X 45° REF	0.31 REF				
T3255+8	0.120 X 45° REF	0.31 REF				
T3255+8C	0.120 X 45° REF	0.31 REF				
T3255+9	0.120 X 45° REF	0.31 REF				
T3255M+4	0.120 X 45° REF	0.31 REF				
T3255M+5	0.120 X 45° REF	0.31 REF				
T3255MK+1	0.120 X 45° REF	0.31 REF				
T3255MK+2	0.120 X 45° REF	0.31 REF				
T3255N+1	0.120 X 45° REF	0.31 REF				
T3255MN+1	0.120 X 45° REF	0.31 REF				
T4055+1	0.160 X 45° REF	0.28 REF				
T4055+1C	0.160 X 45° REF	0.28 REF				
T4055+2	0.160 X 45° REF	0.28 REF				
T4055+2C	0.160 X 45° REF	0.28 REF				
T4055MN+1	0.160 X 45° REF	0.28 REF				
T4055N+1	0.160 X 45° REF	0.28 REF				

DIMENSION VARIATION									
PKG.	D2			E2	E2				
CODES	MIN.	N□M.	MAX.	MIN.	N□M.	MAX.	±0.10		
T4055N+1	3,40	3.50	3.60	3.40	3.50	3.60			
T4055MN+1	3.40	3.50	3.60	3.40	3.50	3.60			



PACKAGE DUTLINE, 16,20,28,32,40L
THIN QFN, 5×5×0.75mm

APPROVAL DOCUMENT CONTROL NO. RE
21-0140 A

REV.

NOTES:

- 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.
- \not 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 6 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 EXPOSED PAD DIMENSION FOR T2855+3, T2855+6, T4055+1 AND T4055+2.
- ∕9.\ WARPAGE SHALL NOT EXCEED 0.10 mm.
- 10 MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
- CLEARANCE.
- 13. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
- 14. LEAD CENTERLINES TO BE AT TRUE POSITION AS DEFINED BY BASIC DIMENSION "e", ±0.05.
- 15. MATERIAL MUST BE COMPLIANT WITH MAXIM SPECIFICATION 10-0131 FOR SUBSTANCE CONTENT, MUST BE EU ROHS COMPLIANT WITHOUT EXEMPTION AND PB-FREE.
- 16. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND POFREE (+) PKG. CODES.



PACKAGE DUTLINE, 16,20,28,32,40L THIN QFN, 5×5×0.75mm

APPROVAL

DOCUMENT CONTROL NO. 21-0140

REVISION HISTORY

		1	1
REV	CHANGES MADE	DATE	INIT.
Α	ECN #HQ-02-4661. INITIAL RELEASE INTO DOCUMENT CONTROL.	6/13/02	GP
В	ECN #HQ-02-4662. 16L DATA ADDED TO DRAWING.	6/25/02	GP
С	ECH #HQ-02-4663. T2855-2 PACKAGE CODE DIMENSIONS ADDED.	6/25/02	GP
D	ECN #HQ-04-2695. COSMETICS CHANGES IN DRAWING. TITLE CHANGED.	2/26/04	Rdel
E	ECN #HQ-04-3755. NEW PKG. CODES ADDED TO EXPOSED PAD VARIATIONS TABLE. DOWN	3/12/04	JD
	BONDS COLUMN ADDED TO THIS TABLE.		
F	ECN # HQ-05-A155. ADD NEW TQFN PACKAGES TO DIMENSION TABLES. CHANGE DRAWING	10/31/05	JD/RdeL
	TO INCLUDEMARKING REFERENCE. REMOVE 40L 5X5 TQFN FROM COMMON DIMENSIONS.		
G	ECN # HQ-05-A156. CHANGE LOCATION OF LEAD NUMBERS. MINOR PLACEMENT		
	ADJUSTMENTS FOR DIMENSION "L".	10/31/05	JD/RdeL
Н	ECN # HQ-05-3205. ADD 0.4mm LEAD PITCH PACKAGE, T4055-1, TO FAMILY PACKAGE		
	OUTLINE. TITLE CHANGED	10/31/05	RdeL
ı	ECN # HQ-05-A157. UPDATED PKG. CODES BASED ON CURRENT STATUS, CLARIFY		
	MARKING,REMOVE REFERENCE FROM NOTE 9	10/31/05	RdeL
J	ECN# HQ-06-3085. REMOVE DETAIL B IN DRAWING. REMOVE: L1, K(nom), K(max) DIMENSION		
	IN TABLE CHANGE L DIMENSION ANDEXPOSED PAD SIZE FOR T4055 PACKAGE TO MATCH	06/02/06	RdeL
	ACTUAL NSEB TOOL DESIGN AND ACTUAL PARTS. REMOVEDOWNBOND & L EXCEPTION		
	COLUMN FROM TABLE		
K	ECN # HQ-07-B493. CHANGES IN NOTE #9. PKG. CODES ANDDED TO EXP. PAD VARIATIONS		
	TABLE.	03/20/07	GP
L	ECN# HQ-07-0119. PKG. CODE NAME CHANGED FROM T2055M-5 TO T2055MN-5. NO OTHER		
	CHANGES.	07/13/07	GP
М	ECN# HQ-09-0396. DATA FOR T1655-4 AND T4055N-1 PKGS. ADDED TO THE TABLE.		
N	ECN#EV-11-0841: Package Code table Description to T1655N-1.	03/10/09	GP
0	ECN # HQ-11-0870. ADDED PKG CODES T2055M-3 & T2855M-5.	04/12/11	MM
Р	ECN #HQ-11-1483. T3255M-5 PKG. CODE ADDED.	05/10/11	MM
Q	ECN #HQ-11-2105. T2855MK-8 PKG. CODE ADDED TO DWG.	08/04/11	GP
R	ECN #HQ-12-2855. ADD REFERENCE TO PACKAGE VARIATION ON CORNER PIN CHAMFER	09/19/11	GP
	DIMENSIONS. 32 and 40 lead 5x5mm have chamfer on corner pins as verified with ASE-	2/1/13	WD
	CL and UTAC assemblersADD TABLE LISTING PACKAGE CODES WITH APPLICABLE		
	CORNER PIN CHAMFER VARIATION -ADD DETAIL 'B' SHOWING DIAGRAM OF CORNER		
	CHAMFER LEAD OPTION		
S	ECN #HQ-13-0551. CHANGE TABLE HEADING "EXPOSED PAD VARIATION" TO		
	"DIMENSION VARIATION" -ADD LEAD LENGTH VARIATION (L=0.40+/-0.10) for the	03/13/13	WD
	following pkg codes:T2055-5,T2055MN-5,T2855-8,T2855MK-8 (email confirmation from		
	ASECL and UTL attached to ECN) -ADD NOTE 12: "REFER TO DIMENSION VARIATION		
	TABLE FOR LEAD LENGTH VARIATION -ADD NOTE 13: APPLICABLE ONLY FOR PACKAGES		
	WITH TIGHT CORNER METAL TO METAL CLEARANCE		
Т	ECN #HQ-13-0656. Add new package code, Copper wire option	03/20/13	AG
U	ECN #HQ-13-1689. FOR COPPER WIRE BOND PACKAGE CODES.	07/29/13	AG
V	ECN # HQ-13-2247. Add new package code for copper wire bonding	09/30/13	AG
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Maxim Integrated	TITLE: PACKAGE OUTLINE, 16,20,28,32,40L THIN QFN, 5x5x0.75mm								
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