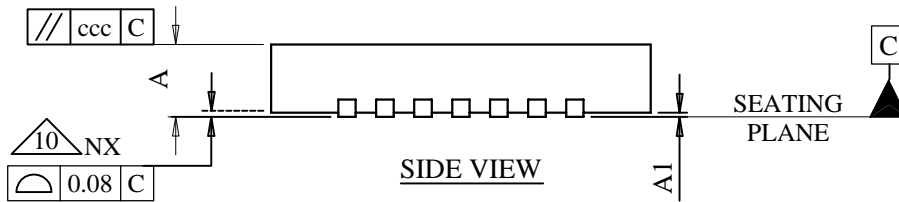
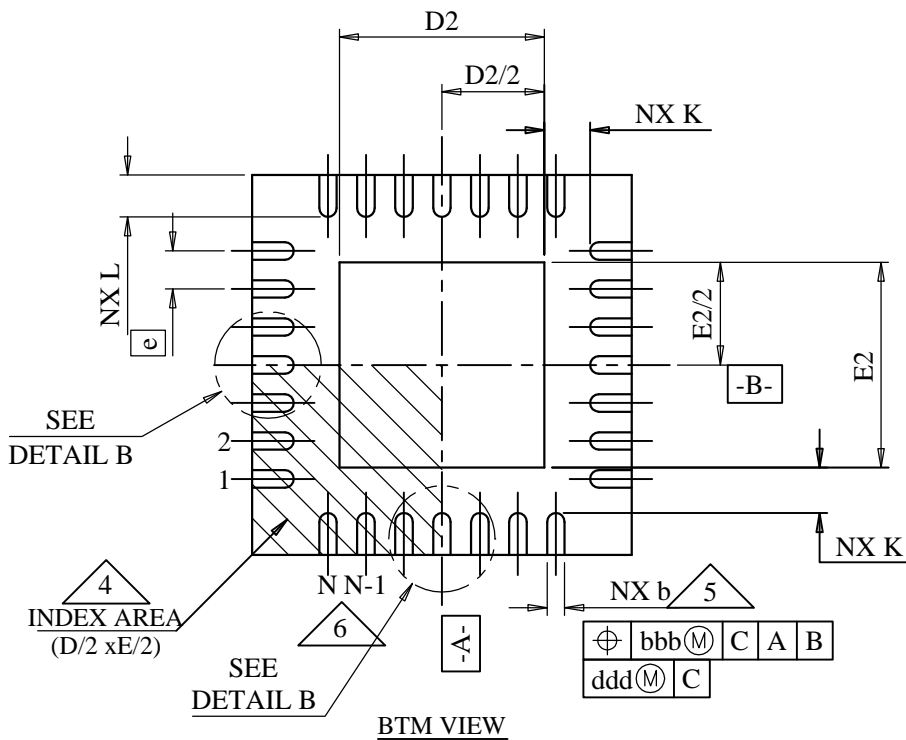


TOP VIEW



SIDE VIEW



BTM VIEW

FIGURE 1



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DWG NO: PKGML00001

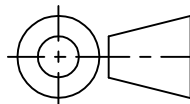
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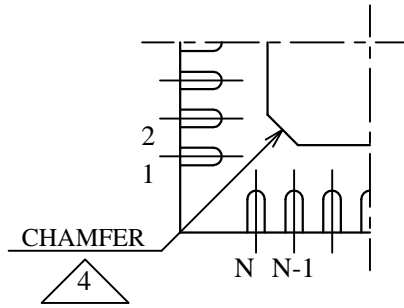


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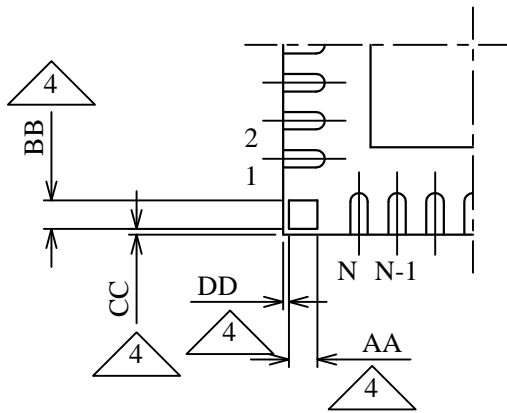
MLP QUAD FAMILY
PACKAGE OUTLINE

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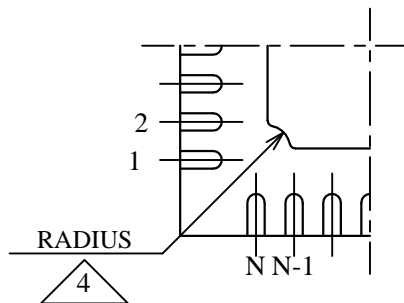
BOTTOM VIEW WITH TYPE A ID




BOTTOM VIEW WITH TYPE B ID



BOTTOM VIEW WITH TYPE C ID



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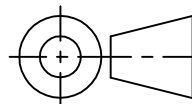
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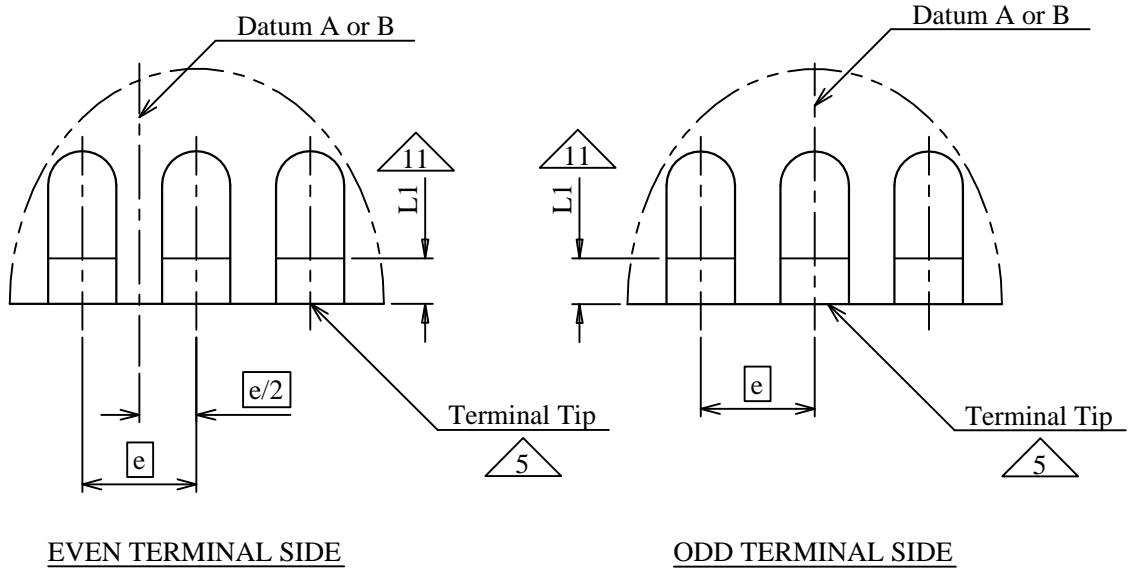
DWG TITLE:

MLP QUAD FAMILY
PACKAGE OUTLINE

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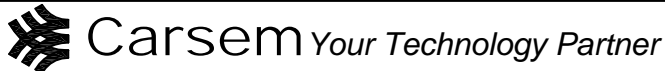
VARIATION DESIGNATORS

FIRST DIGIT CODE		SECOND DIGIT CODE		THIRD DIGIT CODE		FOURTH DIGIT CODE	
OVERALL HEIGHT		BODY LENGTH		BODY WIDTH		TERMINAL PITCH	
A	LETTER CODE	D	LETTER CODE	E	LETTER CODE	e	LETTER CODE
1.00 max	V	1.0	A	1.0	A	1.00	A
0.80 max	W	1.5	B	1.5	B	0.80	B
---	---	2.0	C	2.0	C	0.65	C
---	---	2.5	D	2.5	D	0.50	D
---	---	3.0	E	3.0	E	0.40	E
---	---	3.5	F	3.5	F	---	---
---	---	4.0	G	4.0	G	---	---
---	---	5.0	H	5.0	H	---	---
---	---	6.0	J	6.0	J	---	---
---	---	7.0	K	7.0	K	---	---
---	---	8.0	L	8.0	L	---	---
---	---	9.0	M	9.0	M	---	---
---	---	10.0	N	10.0	N	---	---
---	---	11.0	P	11.0	P	---	---
---	---	12.0	R	12.0	R	---	---
---	---	4.5	S	4.5	S	---	---
---	---	5.5	T	5.5	T	---	---
---	---	6.5	U	6.5	U	---	---

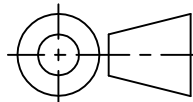


DETAIL B

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.



REVISION	DWG NO: PKGML00001	
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	DATE	2008-APR-02



DWG TITLE:	MLP QUAD FAMILY PACKAGE OUTLINE
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COMMON DIMENSION						
TOLERANCE OF FORM AND POSITION						
aaa	0.10					
bbb	0.10					
ccc	0.10					
ddd	0.05					
NOTES	1,2					
REF	11-534					
ISSUE	A					

COMMON DIMENSION						
SYMBOL	V : very thin			W : very very thin		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.70	0.75	0.80
A1	0.00	0.02	0.05	0.00	0.02	0.05
L1	0.03	---	0.15	0.03	---	0.15
K	0.20	---	---	0.20	---	---
NOTES	1,2					
REF	11-640					
ISSUE	F					

COMMON DIMENSION						
PITCH (e)	LEAD WIDTH [b]					
	MIN	NOM	MAX			
1.00	0.30	0.40	0.45			
0.80	0.25	0.30	0.35			
0.65	0.25	0.30	0.35			
0.50	0.18	0.25	0.30			
0.40	0.15	0.20	0.25			
NOTES	5,12	5,12	5,12			
REF	11-534	11-534	11-534			
ISSUE	A	A	A			

SPECIFIC DIMENSION VARIATION						
VARIATION		LEAD WIDTH [b]			PITCH [e]	
		NOM	MAX	MIN		
VEED-5NJ1	WEED-5NJ1	0.15	0.20	0.25	0.50	
VLLC-2NJ2	WLLC-2NJ2	0.18	0.25	0.30	0.65	

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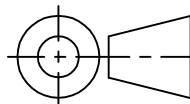
DWG NO: PKGML00001

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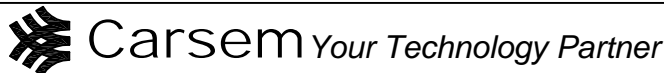
DWG TITLE:

MLP QUAD FAMILY
PACKAGE OUTLINE

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Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.50	12	3X3	VEED-1	WEED-1	---	0.435	0.435	0.181	0.181
0.50	12	3X3	VEED-1.1	WEED-1.1	R0.20	---	---	---	---
0.50	16	3X3	VEED-2	WEED-2	---	0.235	0.235	0.181	0.181
0.50	12	3X3	VEED-5	WEED-5	---	0.435	0.435	0.18	0.18
0.50	12	3X3	VEED-5.1	WEED-5.1	R0.20	---	---	---	---
0.50	16	3X3	VEED-6.0	WEED-6.0	---	0.235	0.235	0.181	0.181
0.50	16	3X3	VEED-6.1	WEED-6.1	R0.20	---	---	---	---
0.50	20	4X4	VGGD-1	WGGD-1	---	0.435	0.435	0.181	0.181
0.50	24	4X4	VGGD-2	WGGD-2	---	0.235	0.235	0.181	0.181
0.50	20	4X4	VGGD-5	WGGD-5	R0.20	---	---	---	---
0.50	24	4X4	VGGD-8	WGGD-8	---	0.235	0.235	0.181	0.181
0.50	24	4X4	VGGD-8.1	WGGD-8.1	R0.20	---	---	---	---
0.50	16	4X4	VGGD-10	WGGD-10	C'0.225	---	---	---	---
0.50	24	5X4	VHGD	WHGD	---	0.435	0.435	0.181	0.181
0.50	28	5X5	VHHD-1	WHHD-1	---	0.435	0.435	0.181	0.181
0.50	28	5X5	VHHD-1.1	WHHD-1.1	R0.30	---	---	---	---
0.50	32	5X5	VHHD-2	WHHD-2	---	0.235	0.235	0.181	0.181
0.50	32	5X5	VHHD-2.1	WHHD-2.1	R0.30	---	---	---	---
0.50	32	5X5	VHHD-5.0	WHHD-5.0	---	0.235	0.235	0.181	0.181
0.50	32	5X5	VHHD-5.1	WHHD-5.1	R0.30	---	---	---	---
0.50	38	5X7	VHKD	WHKD	---	0.357	0.232	0.181	0.181
0.50	32	6X5	VJHD	WJHD	C'0.225	---	---	---	---
0.50	36	6X6	VJJD-1	WJJD-1	---	0.435	0.435	0.181	0.181
0.50	36	6X6	VJJD-1.1	WJJD-1.1	R0.30	---	---	---	---
0.50	36	6X6	VJJD-1.2	WJJD-1.2	---	0.434	0.434	0.181	0.181
0.50	40	6X6	VJJD-2	WJJD-2	---	0.235	0.235	0.181	0.181
0.50	40	6X6	VJJD-2.1	WJJD-2.1	R0.30	---	---	---	---
0.50	40	6X6	VJJD-2.2	WJJD-2.2	R0.30	---	---	---	---
0.50	36	6X6	VJJD-8	WJJD-8	C'0.225	---	---	---	---
0.50	38	7X5	VKHD	WKHD	---	0.232	0.357	0.18	0.18
0.50	44	7X7	VKKD-1	WKKD-1	---	0.435	0.435	0.181	0.181
0.50	48	7X7	VKKD-2	WKKD-2	C'0.350	---	---	---	---
0.50	56	8X8	VLLD-2.0	WLLD-2.0	---	0.235	0.235	0.181	0.181
0.50	56	8X8	VLLD-2.1	WLLD-2.1	R0.30	---	---	---	---
0.50	64	9X9	VMMD-4.0	WMMD-4.0	R0.45	---	---	---	---
0.50	64	9X9	VMMD-4.1	WMMD-4.1	R0.45	---	---	---	---

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DWG NO: PKGML00001

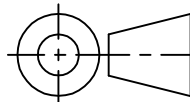
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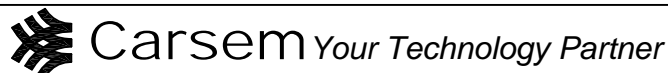
MLP QUAD FAMILY PACKAGE OUTLINE

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Summary Table

Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.50	16	3X3	VEED-4NJ1	WEED-4NJ1	C'0.225	---	---	---	---
0.50	16	3X3	VEED-4NJ2	WEED-4NJ2	R0.20	---	---	---	---
0.50	16	3X3	VEED-4NJ3	WEED-4NJ3	R0.20	---	---	---	---
0.50	16	3X3	VEED-4NJ4	WEED-4NJ4	R0.20	---	---	---	---
0.50	12	3X3	VEED-5NJ1	WEED-5NJ1	R0.20	---	---	---	---
0.50	16	3X3	VEED-6NJ1	WEED-6NJ1	R0.20	---	---	---	---
0.50	16	3X3	VEED-6NJ2	WEED-6NJ2	R0.20	---	---	---	---
0.50	16	3X3	VEED-6NJ3	WEED-6NJ3	R0.20	---	---	---	---
0.50	20	3X4	VEGD-NJ1	WEGD-NJ1	R0.20	---	---	---	---
0.50	20	4x4	VGGD-1NJ1	WGGD-1NJ1	R0.20	---	---	---	---
0.50	24	4X4	---	WGGD-1NJ2	R0.20	---	---	---	---
0.50	20	4X4	VGGD-5NJ1	WGGD-5NJ1	C'0.225	---	---	---	---
0.50	24	4X4	VGGD-6NJ1	WGGD-6NJ1	C'0.225	---	---	---	---
0.50	24	4X4	VGGD-6NJ2	WGGD-6NJ2	R0.20	---	---	---	---
0.50	24	4X4	VGGD-6NJ3	WGGD-6NJ3	R0.20	---	---	---	---
0.50	20	4x5	VGHD-1NJ1	WGHD-1NJ1	R0.30	---	---	---	---
0.50	24	4X5	VGHD-1NJ2	WGHD-1NJ2	C'0.225	---	---	---	---
0.50	28	4X5	VGHD-3NJ1	WGHD-3NJ1	R0.30	---	---	---	---
0.50	32	4x6	VGJD-NJ1	WGJD-NJ1	R0.30	---	---	---	---
0.50	28	5X5	VHHD-1NJ1	---	R0.30	---	---	---	---
0.50	28	5x5	VHHD-1NJ2	WHHD-1NJ2	C0.350	---	---	---	---
0.50	32	5x5	VHHD-5NJ1	WHHD-5NJ1	R0.30	---	---	---	---
0.50	32	5x6	VHJD-NJ1	WHJD-NJ1	R0.30	---	---	---	---
0.50	40	5X7	VHKD-NJ1	WHKD-NJ1	R0.30	---	---	---	---
0.50	40	5X7	VHKD-NJ2	WHKD-NJ2	R0.30	---	---	---	---
0.50	38	5X7	VHKD-1NJ1	WHKD-1NJ1	R0.30	---	---	---	---
0.50	40	6X6	VJJD-1NJ1	WJJD-1NJ1	R0.30	---	---	---	---
0.50	36	6X6	VJJD-6NJ1	WJJD-6NJ1	R0.30	---	---	---	---
0.50	36	6X6	VJJD-8NJ1	WJJD-8NJ1	C'0.225	---	---	---	---
0.50	48	7X7	VKKD-NJ1	WKKD-NJ1	R0.30	---	---	---	---
0.50	48	7X7	VKKD-4NJ1	WKKD-4NJ1	R0.30	---	---	---	---
0.50	56	8X8	VLLD-2NJ1	WLLD-2NJ1	R0.30	---	---	---	---
0.50	56	8X8	VLLD-5NJ1	WLLD-5NJ1	R0.30	---	---	---	---
0.50	56	8X8	VLLD-6NJ1	WLLD-6NJ1	C'0.350	---	---	---	---

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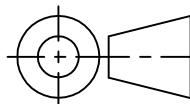
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DWG TITLE:

MLP QUAD FAMILY PACKAGE OUTLINE

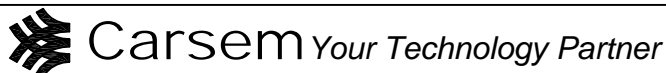
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Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.50	64	9X9	VMMD-3NJ1	WMMD-3NJ1	---	0.235	0.235	0.181	0.181
0.50	64	9X9	VMMD-3NJ2	WMMD-3NJ2	R0.45	---	---	---	---
0.50	64	9X9	VMMD-3NJ3	WMMD-3NJ3	R0.45	---	---	---	---
0.50	60	9X9	VMMD-NJ1	WMMD-NJ1	R0.45	---	---	---	---
0.50	72	10x10	VNND-2NJ1	---	R0.45	---	---	---	---
0.50	72	10X10	VNND-3NJ1	WNND-3NJ1	R0.45	---	---	---	---
0.50	72	10X10	VNND-3NJ2	WNND-3NJ2	R0.45	---	---	---	---
0.50	56	11x5	VPHD-NJ1	WPHD-NJ1	R0.45	---	---	---	---
0.50	80	11x11	VPPD-NJ1	WPPD-NJ1	R0.45	---	---	---	---
0.50	80	11x11	VPPD-NJ2	WPPD-NJ2	R0.45	---	---	---	---
0.50	88	12X12	VRRD-NJ1	WRRD-NJ1	R0.45	---	---	---	---
0.50	88	12X12	VRRD-NJ2	WRRD-NJ2	R0.45	---	---	---	---

Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.65	8	3X3	VEEC-3	WEEC-3	---	0.434	0.434	0.181	0.181
0.65	16	4X4	VGGC.0	WGGC.0	---	0.344	0.344	0.181	0.181
0.65	16	4X4	VGGC.1	WGGC.1	R0.20	---	---	---	---
0.65	16	4X4	VGGC-3.0	WGGC-3.0	---	0.344	0.344	0.181	0.181
0.65	16	4X4	VGGC-3.1	WGGC-3.1	R0.20	---	---	---	---
0.65	20	5X5	VHHC	WHHC	---	0.519	0.519	0.181	0.181
0.65	28	6X6	VJJC.0	WJJC.0	---	0.434	0.434	0.181	0.181
0.65	28	6X6	VJJC.1	WJJC.1	R0.30	---	---	---	---
0.65	32	7X7	VKKC.0	WKKC.0	---	0.545	0.545	0.18	0.18
0.65	32	7X7	VKKC.1	WKKC.1	C'0.350	---	---	---	---

Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.65	12	4x4	VGGC-NJ1	WGGC-NJ1	C'0.225	---	---	---	---
0.65	16	4x4	VGGC-3NJ1	WGGC-3NJ1	R0.20	---	---	---	---
0.65	18	5x4	VHGC-1NJ1	WHGC-1NJ1	R0.30	---	---	---	---
0.65	28	6X6	VJJC-3NJ1	WJJC-3NJ1	R0.30	---	---	---	---
0.65	28	6X6	VJJC-4NJ1	WJJC-4NJ1	R0.30	---	---	---	---
0.65	32	7x7	VKKC-NJ1	WKKC-NJ1	R0.30	---	---	---	---
0.65	38	7X9	VKMC-NJ1	WKMC-NJ1	R0.45	---	---	---	---
0.65	44	8X8	VLLC-2NJ1	WLLC-2NJ1	R0.30	---	---	---	---
0.65	44	8X8	VLLC-2NJ2	WLLC-2NJ2	R0.30	---	---	---	---
0.65	44	8X8	VLLC-2NJ3	WLLC-2NJ3	R0.30	---	---	---	---
0.65	44	9X9	VMMC-1NJ1	WMMC-1NJ1	C'0.350	---	---	---	---

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DWG NO: PKGML00001

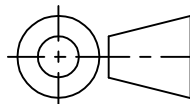
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DWG TITLE:

MLP QUAD FAMILY PACKAGE OUTLINE

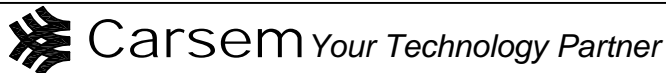
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Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.80	12	4X4	VGGB.0	WGGB.0	---	0.434	0.434	0.181	0.181
0.80	12	4X4	VGGB.1	WGGB.1	C'0.225	---	---	---	---
0.80	20	6X6	VJJB.0	WJJB.0	R0.30	---	---	---	---
0.80	28	7X7	VKKB	WKKB	R0.30	---	---	---	---
0.80	28	7X7	VKKB.1	WKKB.1	R0.30	---	---	---	---

Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
0.80	20	5X5	VHHB-NJ1	WHHB-NJ1	R0.30	---	---	---	---

Summary Table									
Lead Pitch	Lead Count	Body Size	Very thin FQFP-N	Very very thin FQFP-N	Type A iD	Type B iD			
					Type C iD	AA	BB	CC	DD
1.00	12	5X5	VHHA-NJ1	WHHA-NJ1	C'0.225	---	---	---	---

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.



REVISION

DWG NO: PKGML00001

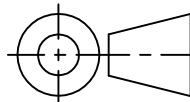
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DATE

2008-APR-02



DWG TITLE:

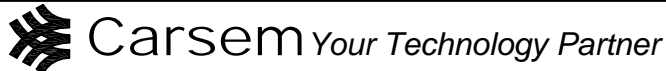
MLP QUAD FAMILY PACKAGE OUTLINE

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e=1.00 Pitch										
Variation Symbol	VHHA-NJ1									Note
	WHHA-NJ1									
D BSC	5.00									
E BSC	5.00									
D1 BSC	---									
E1 BSC	---									
D2	MIN	3.00								
	NOM	3.15								
	MAX	3.25								
E2	MIN	3.00								
	NOM	3.15								
	MAX	3.25								
L	MIN	0.45								
	NOM	0.55								
	MAX	0.65								
N	12									3,7
ND	3									6
NE	3									6
NOTES	1,2									
REF	---									
ISSUE	---									

e=0.80 Pitch										
Variation Symbol	VGGB.0	VGGB.1	VHHB-NJ1	VJJB.0	VKKB	VKKB.1				Note
	WGGB.0	WGGB.1	WHHB-NJ1	WJJB.0	WKKB	WKKB.1				
D BSC	4.00	4.00	5.00	6.00	7.00	7.00				
E BSC	4.00	4.00	5.00	6.00	7.00	7.00				
D1 BSC	---	---	---	---	---	---				
E1 BSC	---	---	---	---	---	---				
D2	MIN	2.00	2.00	3.50	3.28	4.95	3.85			
	NOM	2.15	2.15	3.65	3.43	5.10	4.00			
	MAX	2.25	2.25	3.75	3.53	5.20	4.10			
E2	MIN	2.00	2.00	3.50	3.28	4.95	3.85			
	NOM	2.15	2.15	3.65	3.43	5.10	4.00			
	MAX	2.25	2.25	3.75	3.53	5.20	4.10			
L	MIN	0.45	0.45	0.25	0.50	0.50	0.45			
	NOM	0.55	0.55	0.35	0.60	0.60	0.55			
	MAX	0.65	0.65	0.45	0.70	0.70	0.65			
N	12	12	20	20	28	28				3,7
ND	3	3	5	5	7	7				6
NE	3	3	5	5	7	7				6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2				
REF	---	---	---	---	---	---				
ISSUE	---	---	---	---	---	---				

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.

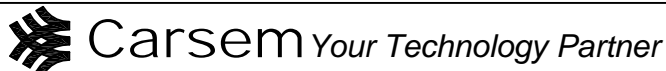


REVISION AF	DWG NO: PKGML00001			DWG TITLE: MLP QUAD FAMILY PACKAGE OUTLINE
	DRAWN	ZAHRUL		
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e=0.65 Pitch										
Variation Symbol	VEEC-3	VGGC.0	VGGC.1	VGGC-3.0	VGGC-3.1	VHHC	VJJC.0	VJJC.1	VKKC.0	Note
	WEEC-3	WGGC.0	WGGC.1	WGGC-3.0	WGGC-3.1	WHHC	WJJC.0	WJJC.1	WKKC.0	
D BSC	3.00	4.00	4.00	4.00	4.00	5.00	6.00	6.00	7.00	
E BSC	3.00	4.00	4.00	4.00	4.00	5.00	6.00	6.00	7.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	1.55	2.00	2.00	2.55	2.55	3.00	3.55	4.00	5.00
	NOM	1.70	2.15	2.15	2.70	2.70	3.15	3.70	4.15	5.15
	MAX	1.80	2.25	2.25	2.80	2.80	3.25	3.80	4.25	5.25
E2	MIN	1.55	2.00	2.00	2.55	2.55	3.00	3.55	4.00	5.00
	NOM	1.70	2.15	2.15	2.70	2.70	3.15	3.70	4.15	5.15
	MAX	1.80	2.25	2.25	2.80	2.80	3.25	3.80	4.25	5.25
L	MIN	0.30	0.45	0.45	0.30	0.30	0.45	0.50	0.50	0.45
	NOM	0.40	0.55	0.55	0.40	0.40	0.55	0.60	0.60	0.55
	MAX	0.50	0.65	0.65	0.50	0.50	0.65	0.70	0.70	0.65
N	8	16	16	16	16	20	28	28	32	3,7
ND	2	4	4	4	4	5	7	7	8	6
NE	2	4	4	4	4	5	7	7	8	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	11-534	11-534	11-534	11-534	11-534	11-620	11-620	11-620	11-534	
ISSUE	A	A	A	A	A	D	D	D	A	

e=0.65 Pitch										
Variation Symbol	VKKC.1	VGGC-NJ1	VGGC-3NJ1	VHGC-1NJ1	VJJC-3NJ1	VJJC-4NJ1	VKKC-NJ1	VKMC-NJ1	VLLC-2NJ1	Note
	WKKC.1	WGGC-NJ1	WGGC-3NJ1	WHGC-1NJ1	WJJC-3NJ1	WJJC-4NJ1	WKKC-NJ1	WKMC-NJ1	WLLC-2NJ1	
D BSC	7.00	4.00	4.00	5.00	6.00	6.00	7.00	7.00	8.00	
E BSC	7.00	4.00	4.00	4.00	6.00	6.00	7.00	9.00	8.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	5.00	1.95	2.00*	3.45	4.65*	4.30	5.00	5.00	6.30*
	NOM	5.15	2.10	2.15	3.60	4.80	4.45	5.15	5.15	6.45
	MAX	5.25	2.20	2.25	3.70	4.90	4.55	5.25	5.25	6.55
E2	MIN	5.00	1.95	2.00*	2.45	4.65*	4.30	5.00	7.00	6.30*
	NOM	5.15	2.10	2.15	2.60	4.80	4.45	5.15	7.15	6.45
	MAX	5.25	2.20	2.25	2.70	4.90	4.55	5.25	7.25	6.55
L	MIN	0.45	0.55	0.30	0.30	0.30	0.30	0.45	0.45	0.30*
	NOM	0.55	0.65	0.40	0.40	0.40	0.40	0.55	0.55	0.40
	MAX	0.65	0.75	0.50	0.50	0.50	0.50	0.65	0.65	0.50
N	32	12	16	18	28	28	32	38	44	3,7
ND	8	4	4	5	7	7	8	8	11	6
NE	8	4	4	4	7	7	8	11	11	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	11-534	---	---	---	---	---	---	---	---	
ISSUE	A	---	---	---	---	---	---	---	---	

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.

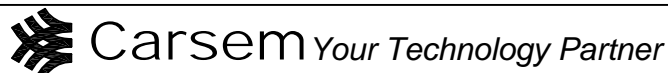


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e=0.65 Pitch										
Variation Symbol	VLLC-2NJ2	VLLC-2NJ3	VMMC-1NJ1							Note
	WLLC-2NJ2	WLLC-2NJ3	WMMC-1NJ1							
D BSC	8.00	8.00	9.00							
E BSC	8.00	8.00	9.00							
D1 BSC	---	---	---							
E1 BSC	---	---	---							
D2	MIN	6.30*	6.50	7.25*						
	NOM	6.45	6.65	7.40						
	MAX	6.55	6.75	7.50						
E2	MIN	6.30*	6.50	7.25*						
	NOM	6.45	6.65	7.40						
	MAX	6.55	6.75	7.50						
L	MIN	0.30*	0.30*	0.30						
	NOM	0.40	0.40	0.40						
	MAX	0.50	0.50	0.50						
N	44	44	44							3,7
ND	11	11	11							6
NE	11	11	11							6
NOTES	1,2	1,2	1,2							
REF	---	---	---							
ISSUE	---	---	---							

e=0.50 Pitch										
Variation Symbol	VEED-1	VEED-1.1	VEED-2	VEED-5	VEED-5.1	VEED-6.0	VEED-6.1	VGGD-1	VGGD-2	Note
	WEED-1	WEED-1.1	WEED-2	WEED-5	WEED-5.1	WEED-6.0	WEED-6.1	WGGD-1	WGGD-2	
D BSC	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	
E BSC	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	1.00	1.00	1.00	1.30	1.30	1.30	1.30	2.00	2.00
	NOM	1.15	1.15	1.15	1.45	1.45	1.45	1.45	2.15	2.15
	MAX	1.25	1.25	1.25	1.55	1.55	1.55	1.55	2.25	2.25
E2	MIN	1.00	1.00	1.00	1.30	1.30	1.30	1.30	2.00	2.00
	NOM	1.15	1.15	1.15	1.45	1.45	1.45	1.45	2.15	2.15
	MAX	1.25	1.25	1.25	1.55	1.55	1.55	1.55	2.25	2.25
L	MIN	0.45	0.45	0.30	0.30	0.30	0.30	0.30	0.45	0.30
	NOM	0.55	0.55	0.40	0.40	0.40	0.40	0.40	0.55	0.40
	MAX	0.65	0.65	0.50	0.50	0.50	0.50	0.50	0.65	0.50
N	12	12	16	12	12	16	16	20	24	3,7
ND	3	3	4	3	3	4	4	5	6	6
NE	3	3	4	3	3	4	4	5	6	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.

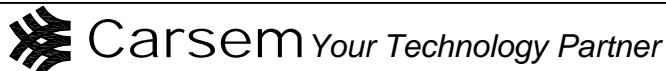


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			MLP QUAD FAMILY PACKAGE OUTLINE
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e=0.50 Pitch										
Variation Symbol	VGGD-5	VGGD-8	VGGD-8.1	VGGD-10	VHGD	VHHD-1	VHHD-1.1	VHHD-2	VHHD-2.1	Note
	WGGD-5	WGGD-8	WGGD-8.1	WGGD-10	WHGD	WHHD-1	WHHD-1.1	WHHD-2	WHHD-2.1	
D BSC	4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00	5.00	
E BSC	4.00	4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	2.55	2.30	2.30	2.30	3.00	3.00	3.00	3.00	
	NOM	2.70	2.45	2.45	2.45	3.15	3.15	3.15	3.15	
	MAX	2.80	2.55	2.55	2.55	3.25	3.25	3.25	3.25	
E2	MIN	2.55	2.30	2.30	2.30	2.00	3.00	3.00	3.00	
	NOM	2.70	2.45	2.45	2.45	2.15	3.15	3.15	3.15	
	MAX	2.80	2.55	2.55	2.55	2.25	3.25	3.25	3.25	
L	MIN	0.30	0.30	0.30	0.30	0.45	0.45	0.45	0.30	
	NOM	0.40	0.40	0.40	0.40	0.55	0.55	0.55	0.40	
	MAX	0.50	0.50	0.50	0.50	0.75	0.65	0.65	0.50	
N	20	24	24	16	24	28	28	32	32	3,7
ND	5	6	6	4	7	7	7	8	8	6
NE	5	6	6	4	5	7	7	8	8	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

e=0.50 Pitch										
Variation Symbol	VHHD-5.0	VHHD-5.1	VHKD	VJHD	VJJD-1	VJJD-1.1	VJJD-1.2	VJJD-2	VJJD-2.1	Note
	WHHD-5.0	WHHD-5.1	WHKD	WJHD	WJJD-1	WJJD-1.1	WJJD-1.2	WJJD-2	WJJD-2.1	
D BSC	5.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00	6.00	
E BSC	5.00	5.00	7.00	5.00	6.00	6.00	6.00	6.00	6.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	3.30	3.30	3.00	4.00	4.00	4.00	4.00	4.00	
	NOM	3.45	3.45	3.15	4.15	4.15	4.15	4.15	4.15	
	MAX	3.55	3.55	3.25	4.25	4.25	4.25	4.25	4.25	
E2	MIN	3.30	3.30	5.00	3.00	4.00	4.00	4.00	4.00	
	NOM	3.45	3.45	5.15	3.15	4.15	4.15	4.15	4.15	
	MAX	3.55	3.55	5.25	3.25	4.25	4.25	4.25	4.25	
L	MIN	0.30	0.30	0.30	0.45	0.45	0.45	0.45	0.30	
	NOM	0.40	0.40	0.40	0.55	0.55	0.55	0.55	0.40	
	MAX	0.50	0.50	0.50	0.65	0.65	0.65	0.65	0.50	
N	32	32	38	32	36	36	36	40	40	3,7
ND	8	8	7	9	9	9	9	10	10	6
NE	8	8	12	7	9	9	9	10	10	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.

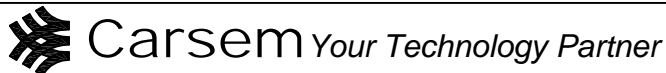


REVISION AF	DWG NO: PKGML00001		DWG TITLE:
			MLP QUAD FAMILY PACKAGE OUTLINE
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e= 0.50 Pitch										
Variation Symbol	VJJD-2.2	VKHD	VKKD-1	VKKD-2	VLLD-2.0	VLLD-2.1	VMMD-4.0	VMMD-4.1	VEED-4NJ1	Note
	WJJD-2.2	WKHD	WKKD-1	WKKD-2	WLLD-2.0	WLLD-2.1	WMMD-4.0	WMMD-4.1	WEED-4NJ1	
D BSC	6.00	7.00	7.00	7.00	8.00	8.00	9.00	9.00	3.00	
E BSC	6.00	5.00	7.00	7.00	8.00	8.00	9.00	9.00	3.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	3.95	5.00	5.00	5.00	6.00	6.00	6.20	6.00	1.55
	NOM	4.10	5.15	5.15	5.15	6.15	6.15	6.35	6.15	1.70
	MAX	4.20	5.25	5.25	5.25	6.25	6.25	6.45	6.25	1.80
E2	MIN	3.95	3.00	5.00	5.00	6.00	6.00	6.20	6.00	1.55
	NOM	4.10	3.15	5.15	5.15	6.15	6.15	6.35	6.15	1.70
	MAX	4.20	3.25	5.25	5.25	6.25	6.25	6.45	6.25	1.80
L	MIN	0.30	0.30	0.45	0.30	0.30	0.30	0.30	0.30	0.30*
	NOM	0.40	0.40	0.55	0.40	0.40	0.40	0.40	0.40	0.40
	MAX	0.50	0.50	0.65	0.50	0.50	0.50	0.50	0.50	0.50
N	40	38	44	48	56	56	64	64	16	3,7
ND	10	12	11	12	14	14	16	16	4	6
NE	10	7	11	12	14	14	16	16	4	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

e= 0.50 Pitch										
Variation Symbol	VEED-4NJ2	VEED-4NJ3	VEED-4NJ4	VEED-5NJ1	VEED-6NJ1	VEED-6NJ2	VEED-6NJ3	VEGD-NJ1	VGGD-1NJ1	Note
	WEED-4NJ2	WEED-4NJ3	WEED-4NJ4	WEED-5NJ1	WEED-6NJ1	WEED-6NJ2	WEED-6NJ3	WEGD-NJ1	WGGD-1NJ1	
D BSC	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	
E BSC	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	1.55	1.55	1.50	1.40	1.40	1.40	1.805	1.50	2.30
	NOM	1.70	1.70	1.65	1.55	1.55	1.55	1.955	1.65	2.45
	MAX	1.80	1.80	1.75	1.65*	1.65*	1.65*	2.055*	1.75	2.55*
E2	MIN	1.55	1.55	1.50	1.40	1.40	1.40	1.805	2.50	2.30
	NOM	1.70	1.70	1.65	1.55	1.55	1.55	1.955	2.65	2.45
	MAX	1.80	1.80	1.75	1.65*	1.65*	1.65*	2.055*	2.75	2.55*
L	MIN	0.20*	0.30*	0.30*	0.30	0.30	0.30	0.17	0.30	0.30*
	NOM	0.30	0.40	0.40	0.40	0.40	0.40	0.27	0.40	0.40
	MAX	0.40	0.50*	0.50*	0.50	0.50	0.50	0.37*	0.50	0.50
N	16	16	16	12	16	16	16	20	20	3,7
ND	4	4	4	3	4	4	4	4	5	6
NE	4	4	4	3	4	4	4	5	5	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

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REVISION
AF

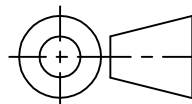
DWG NO: PKGML00001

DRAWN

ZAHRUL

DATE

2008-APR-02



DWG TITLE:

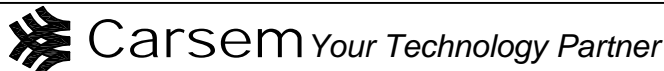
MLP QUAD FAMILY
PACKAGE OUTLINE

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e= 0.50 Pitch										
Variation Symbol	---	VGGD-5NJ1	VGGD-6NJ1	VGGD-6NJ2	VGGD-6NJ3	VGHD-1NJ1	VGHD-1NJ2	VGHD-3NJ1	VGJD-NJ1	Note
	WGGD-1NJ2	WGGD-5NJ1	WGGD-6NJ1	WGGD-6NJ2	WGGD-6NJ3	WGHD-1NJ1	WGHD-1NJ2	WGHD-3NJ1	WGJD-NJ1	
D BSC	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
E BSC	4.00	4.00	4.00	4.00	4.00	5.00	5.00	5.00	6.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	1.45	2.55	2.55	2.55	2.55	2.50	2.50	2.50	2.45
	NOM	1.60	2.70	2.70	2.70	2.70	2.65	2.65	2.65	2.60
	MAX	1.70	2.80	2.80	2.80	2.80	2.75	2.75	2.75	2.70
E2	MIN	1.45	2.55	2.55	2.55	2.55	3.50	3.50	3.50	4.45
	NOM	1.60	2.70	2.70	2.70	2.70	3.65	3.65	3.65	4.60
	MAX	1.70	2.80	2.80	2.80	2.80	3.75	3.75	3.75	4.70
L	MIN	0.30*	0.30*	0.30*	0.25*	0.30*	0.30*	0.30*	0.30*	0.25
	NOM	0.40	0.40	0.40	0.35	0.40	0.40	0.40	0.40	0.35
	MAX	0.50	0.50*	0.50*	0.45	0.50*	0.50	0.50	0.50	0.45
N	24	20	24	24	24	20	24	28	32	3,7
ND	6	5	6	6	6	4	5	6	6	6
NE	6	5	6	6	6	6	7	8	10	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

e= 0.50 Pitch										
Variation Symbol	VHHD-1NJ1	VHHD-1NJ2	VHHD-5NJ1	VHJD-NJ1	VHKD-NJ1	VHKD-NJ2	VHKD-1NJ1	VJJD-1NJ1	VJJD-6NJ1	Note
	-	WHHD-1NJ2	WHHD-5NJ1	WHJD-NJ1	WHKD-NJ1	WHKD-NJ2	WHKD-1NJ1	VJJD-1NJ1	WJJD-6NJ1	
D BSC	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	6.00	
E BSC	5.00	5.00	5.00	6.00	7.00	7.00	7.00	6.00	6.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	3.00	3.10	3.15*	3.35	3.15	3.30	3.35*	2.75	3.80
	NOM	3.15	3.25	3.30	3.50	3.30	3.45	3.50	2.90	3.95
	MAX	3.25	3.35*	3.40	3.60	3.40	3.55	3.60	3.00	4.05
E2	MIN	3.00	3.15	3.15*	4.35	5.15	5.30	5.35*	2.75	3.80
	NOM	3.15	3.25	3.30	4.50	5.30	5.45	5.50	2.90	3.95
	MAX	3.25	3.35*	3.40	4.60	5.40	5.55	5.60	3.00	4.05
L	MIN	0.45*	0.45	0.30	0.30	0.30	0.30	0.30*	0.30*	0.45
	NOM	0.55	0.55	0.40	0.40*	0.40	0.40	0.40	0.40	0.55
	MAX	0.65	0.65	0.50	0.50*	0.50	0.50	0.50	0.50	0.65*
N	28	28	32	32	40	40	38	40	36	3,7
ND	7	7	8	7	8	8	7	10	9	6
NE	7	7	8	9	12	12	12	10	9	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

FOR REVISION UPDATE PLEASE REFER TO HISTORY OF CHANGES.

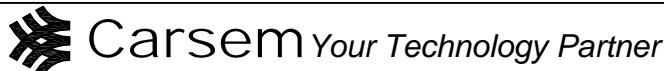


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e= 0.50 Pitch										
Variation Symbol	VJJD-8NJ1	VKKD-NJ1	VKKD-4NJ1	VLLD-2NJ1	VLLD-5NJ1	VLLD-6NJ1	VMMD-3NJ1	VMMD-3NJ2	VMMD-3NJ3	Note
	WJJD-8NJ1	WKKD-NJ1	WKKD-4NJ1	WLDD-2NJ1	WLDD-5NJ1	WLDD-6NJ1	WMMD-3NJ1	WMMD-3NJ2	WMMD-3NJ3	
D BSC	6.00	7.00	7.00	8.00	8.00	8.00	9.00	9.00	9.00	
E BSC	6.00	7.00	7.00	8.00	8.00	8.00	9.00	9.00	9.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	4.30	4.15	5.40*	4.25	6.35*	4.35	7.00	7.00	7.45
	NOM	4.45	4.30	5.55	4.40	6.50	4.50	7.15	7.15	7.60
	MAX	4.55	4.40	5.65	4.50	6.60	4.60	7.25	7.25	7.70
E2	MIN	4.30	4.15	5.40*	4.95	6.35*	5.05	7.00	7.00	7.45
	NOM	4.45	4.30	5.55	5.10	6.50	5.20	7.15	7.15	7.60
	MAX	4.55	4.40	5.65	5.20	6.60	5.30	7.25	7.25	7.70
L	MIN	0.30	0.30	0.30*	0.30	0.30*	0.30*	0.30*	0.30*	0.30*
	NOM	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	MAX	0.50	0.50	0.50	0.50	0.50*	0.50	0.50	0.50	0.50
N	36	48	48	56	56	56	64	64	64	3,7
ND	9	12	12	14	14	14	16	16	16	6
NE	9	12	12	14	14	14	16	16	16	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

e= 0.50 Pitch										
Variation Symbol	VMMD-NJ1	VNND-2NJ1	VNND-3NJ1	VNND-3NJ2	VPHD-NJ1	VPPD-NJ1	VPPD-NJ2	VRRD-NJ1	VRRD-NJ2	Note
	WMMD-NJ1	-	WNND-3NJ1	WNND-3NJ2	WPHD-NJ1	WPPD-NJ1	WPPD-NJ2	WRRD-NJ1	WRRD-NJ2	
D BSC	9.00	10.0	10.00	10.00	11.00	11.00	11.00	12.00	12.00	
E BSC	9.00	10.0	10.00	10.00	5.00	11.00	11.00	12.00	12.00	
D1 BSC	---	---	---	---	---	---	---	---	---	
E1 BSC	---	---	---	---	---	---	---	---	---	
D2	MIN	7.00	6.60	5.75	8.45	8.25	9.45	9.50	6.60	10.45
	NOM	7.15	6.75	5.90	8.60	8.40	9.60	9.65	6.75	10.60
	MAX	7.25	6.85	6.00	8.70	8.50	9.70	9.75	6.85	10.70
E2	MIN	7.00	6.60	5.75	8.45	2.25	9.45	9.50	6.60	10.45
	NOM	7.15	6.75	5.90	8.60	2.40	9.60	9.65	6.75	10.60
	MAX	7.25	6.85	6.00	8.70	2.50	9.70	9.75	6.85	10.70
L	MIN	0.45	0.30*	0.30*	0.30*	0.30	0.30	0.30	0.30	0.30
	NOM	0.55	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	MAX	0.65	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N	60	72	72	72	56	80	80	88	88	3,7
ND	15	18	18	18	20	20	20	22	22	6
NE	15	18	18	18	8	20	20	22	22	6
NOTES	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF	---	---	---	---	---	---	---	---	---	
ISSUE	---	---	---	---	---	---	---	---	---	

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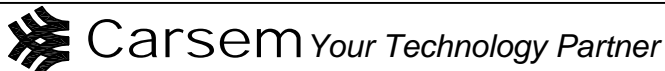


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Notes:

1. Dimensioning and tolerancing conform to ASME Y14.5m-1994.
2. All dimensions are in millimeters while angle is in degrees (°).
3. N is the total number of terminals.
4. The terminal #1 identifier and terminal numbering convention shall conform to JEDEC publication 95, SPP-002. 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 0.15mm and 0.30mm from the terminal tip. If the terminal has the optional radius on the other end of the terminal, the dimension b should not be measured in that radius area.
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. Figure 1 is shown for illustration only. It does not represent any specific variations.
9. All variations may be constructed per figure 1. Variations may alternately be constructed between square shape or rectangular shape per D and E.
10. Unilateral coplanarity zone applies to the exposed heat sink slug as well as the terminals.
11. Depending on the method of lead termination at the edge of the package, pull back (L1) may be present. L minus L1 to be equal to or greater than 0.33mm.
12. For variations with more than one lead count for a given body size and terminal pitch, each lead count for that variation is denoted by a dash number i.e -1,-2.
13. Variation with a Star (*) symbol refers to variations which are not currently JEDEC registered.

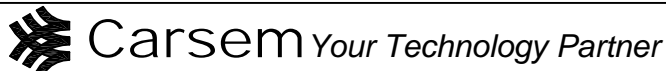
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HISTORY OF CHANGES			
REVISION	DESCRIPTIONS	ORIGINATOR	DATE
F	Add new variation WHKD	Araven	1999-Dec-19
G	Add new variation VNJR-8	Araven	2000-Jan-13
I	Add new Note (note 14) in page 14	Araven	2001-Dec-10
J	Add new variation VNJR-11, add note 12 (Exact shape of Pin # 1 is optional), editorial re layout of the pod.	Araven	2002-Feb-06
K	Editorial re layout	Araven	2002-Aug-08
M	Add new variation VNJR-12	Araven	2002-Sep-12
N	Add new variation VNJR-13	Araven	2002-Oct-28
O	Add new variation VNJR-14	Araven	2002-Nov-15
P	Add new variation VNJR-15	Araven	2002-Dec-03
Q	Add new variation VNJR-16	Araven	2003-Jan-27
R	Add new variation VNJR-17, VNJR-6, VJHB, VJHC, VJHD	Araven	2003-Sep-22
S	Editorial re layout, add new variations	Araven	2003-Oct-13
T	Add new variation V/WNJR-0505, V/WNJR-0506, V/WNJR-0507, V/WNJR-0508, V/WNJR-0509	Araven	2003-Nov-17
U	Add new variation V/WNJR-0510, remove K value	Araven	2004-Oct-18
V	Add new variation V/WNJR-0511, VNJR-0512	Araven	2005-Jan-13
W	Add new variation VNJR-0513, WNJR-0514, V/WNJR-0515, V/WNJR-0516, V/WNJR-0517, V/WNJR-0518, V/WNJR-0519	Araven	2005-Mar-25
X	Add new variation V/WNJR-0401, V/WNJR-0520	Araven	2005-Apr-01
Y	Add new variation VHHD-1.1, V/WNJR-0521, V/WNJR-0801, V/WNJR-0656, V/WNJR-0657	Araven	2005-Aug-16
Z	Add new variation V/WNJR-0403, include K value	Araven	2005-Sep-01
AA	Add new variation V/WNJR-0526	Araven	2005-Sep-12
AB	Add new variation V/WNJR-0521	Araven	2005-Oct-14
AC	Add new variation V/WNJR-0527, V/WNJR-0404	Araven	2005-Nov-08
AD	Change variation designators from NJR's to std. variation designators, add new variation VKKD-1* & VEED-5*	Araven	2006-Jun-23
AE	Add missing variation in page 4 VJJD-8NJ1, V/MMD-3NJ3, VNND-3NJ2, VPPD-NJ1, VEED-NJ2, VKKD-NJ1, VJJB.0, VHJD-NJ1.	Zahrul	2006-Jun-30
AF	Add new variation VJJD-1.1, VJJD-1.2, VJJD-2.2, VMMD-4.1, VEED-4NJ4, VEED-6NJ3, VLLD-5NJ1, VJJC.1, VJJC-3NJ1, VHHD-2.1, V/WPPD-NJ2	Zahrul	2008-APR-02

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