



S M B O L	PITCH VARIATION A			N <sub>O</sub> T E	S M B O L	PITCH VARIATION B			N <sub>O</sub> T E	S M B O L	PITCH VARIATION C			N <sub>O</sub> T E	S M B O L	PITCH VARIATION D			N <sub>O</sub> T E
	MIN.	NOM.	MAX.			MIN.	NOM.	MAX.			MIN.	NOM.	MAX.			MIN.	NOM.	MAX.	
Ⓜ	0.80	BSC			Ⓜ	0.65	BSC			Ⓜ	0.50	BSC			Ⓜ	0.50	BSC		
N	28			3	N	32			3	N	44			3	N	48			3
Nd	7			3	Nd	8			3	Nd	11			3	Nd	12			3
Ne	7			3	Ne	8			3	Ne	11			3	Ne	12			3
L	0.50	0.60	0.75		L	0.50	0.60	0.75		L	0.50	0.60	0.75		L	0.30	0.40	0.50	
b	0.28	0.33	0.40	4	b	0.23	0.28	0.35	4	b	0.18	0.23	0.30	4	b	0.18	0.23	0.30	4
Q	0.30	0.40	0.65	12	Q	0.30	0.40	0.65	12	Q	0.30	0.40	0.65	12	Q	0.00	0.20	0.45	12
D2	SEE EXPOSED PAD VARIATION: C				D2	SEE EXPOSED PAD VARIATION: C,D				D2	SEE EXPOSED PAD VARIATION: A,B,C				D2	SEE EXPOSED PAD VARIATION: E			
E2	SEE EXPOSED PAD VARIATION: C				E2	SEE EXPOSED PAD VARIATION: C,D				E2	SEE EXPOSED PAD VARIATION: A,B,C				E2	SEE EXPOSED PAD VARIATION: E			
D2	SEE EXPOSED PAD VARIATION				D2	SEE EXPOSED PAD VARIATION				D2	SEE EXPOSED PAD VARIATION				D2	SEE EXPOSED PAD VARIATION: E			
E2	SEE EXPOSED PAD VARIATION				E2	SEE EXPOSED PAD VARIATION				E2	SEE EXPOSED PAD VARIATION				E2	SEE EXPOSED PAD VARIATION: E			
D3	SEE MIXED RING PAD VARIATION				D3	SEE MIXED RING PAD VARIATION				D3	SEE MIXED RING PAD VARIATION				D3	SEE MIXED RING PAD VARIATION: A			
E3	SEE MIXED RING PAD VARIATION				E3	SEE MIXED RING PAD VARIATION				E3	SEE MIXED RING PAD VARIATION				E3	SEE MIXED RING PAD VARIATION: A			

\* NOT DESIGNED YET  
 \*\* DESIGNED BUT NOT TOOLED UP  
 \*\*\* APPLIES TO MIXED RING PAD DESIGN ONLY

<STANDARD>

SYMBOLS	D2				E2				NOTE
	MIN	NOM	MAX	MAX	MIN	NOM	MAX	MAX	
EXPOSED PAD VARIATIONS	A	3.15	3.30	3.45	3.15	3.30	3.45		
	B	3.65	3.80	3.95	3.65	3.80	3.95		
	C	4.55	4.70	4.85	4.55	4.70	4.85		
	D	4.75	4.90	5.05	4.75	4.90	5.05		
	E	4.95	5.10	5.25	4.95	5.10	5.25		

EXAMPLE: WE CAN CALL VARIATION "BA" FOR 32 TERMINAL MLF2  
 WITH 3.30 mm X 3.30 mm NOMINAL EXPOSED PAD DIMENSION.  
 THE FORMER ONE IN VARIATION IS FOR PITCH VARIATION AND  
 THE LATER ONE IS FOR EXPOSED PAD VARIATION.

<MIXED RING>

SYMBOLS	D2				E2			
	MIN	NOM	MAX	MAX	MIN	NOM	MAX	MAX
EXPOSED PAD VARIATIONS	E	3.85	4.00	4.15	3.85	4.00	4.15	
SYMBOLS	D3				E3			
	MIN	NOM	MAX	MAX	MIN	NOM	MAX	MAX
MIXED RING PAD VARIATIONS	A	5.15	5.30	5.45	5.15	5.30	5.45	

EXAMPLE ; WE CAN CALL VARIATION "DEA" FOR 32 TERMINAL MLF2

WITH 4.00 mm X 4.00 mm NOMINAL EXPOSED PAD DIMENSION,  
 AND WITH 5.30 mm X 5.30 mm NOMINAL EXPOSED MIXED RING PAD DIMENSION.  
 THE FORMER ONE IN VARIATION IS FOR PITCH VARIATION AND  
 THE LATER ONES ARE FOR EXPOSED PAD AND MIXED RING PAD VARIATION.

S M B O L	COMMON DIMENSIONS			N <sub>O</sub> T E
	MIN.	NOM.	MAX.	
A	0.85	0.90		
A1	0.00	0.01	0.05	11
A2	0.65	0.70		
A3	0.20 REF.			
D	7.00 BSC			
D1	6.75 BSC			
E	7.00 BSC			
E1	6.75 BSC			
θ	12°			
P	0.24	0.42	0.60	
R	0.13	0.17	0.23	12
K	0.20	0.30	0.40	
S	0.50	0.60	0.65	
J	0.60	1.00	1.50	

TITLE			
PACKAGE OUTLINE, MLF2, 7 X 7 mm BODY			
DATE	DWG NUMBER	45277	REV
A3			08
SCALE		PRINTING IS SCALED TO FIT	
DO NOT SCALE DRAWING		SHEET 4 OF 5	