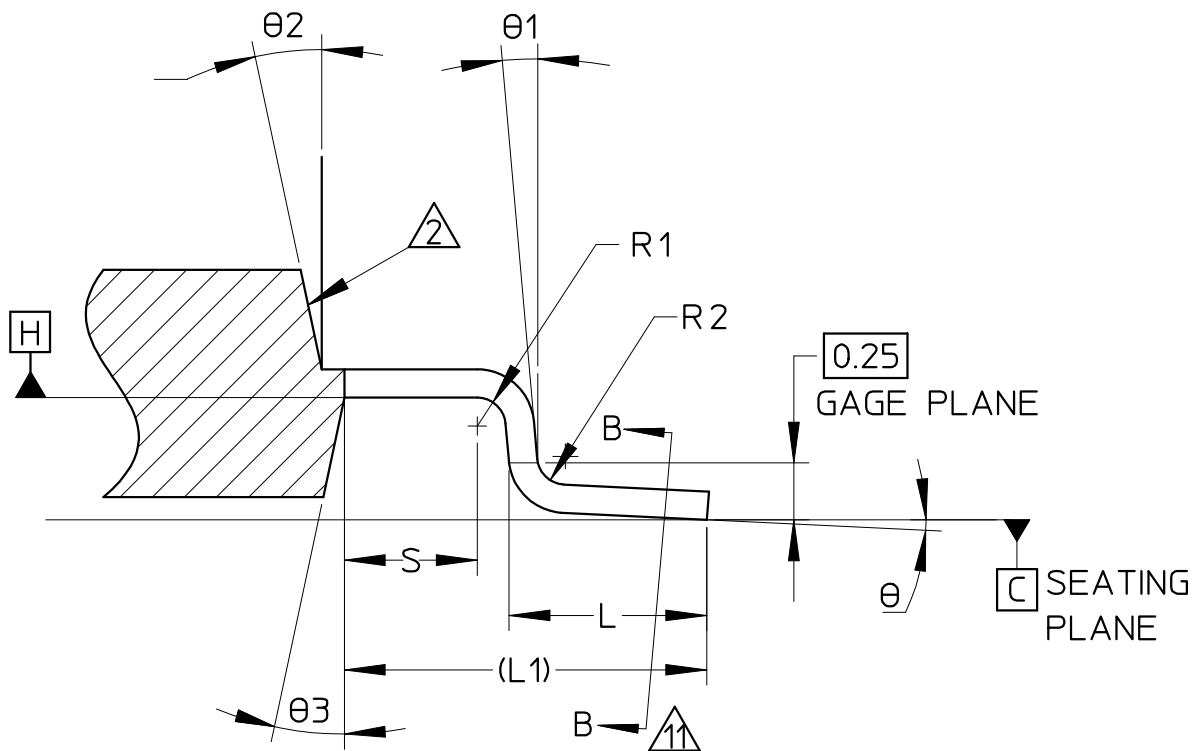
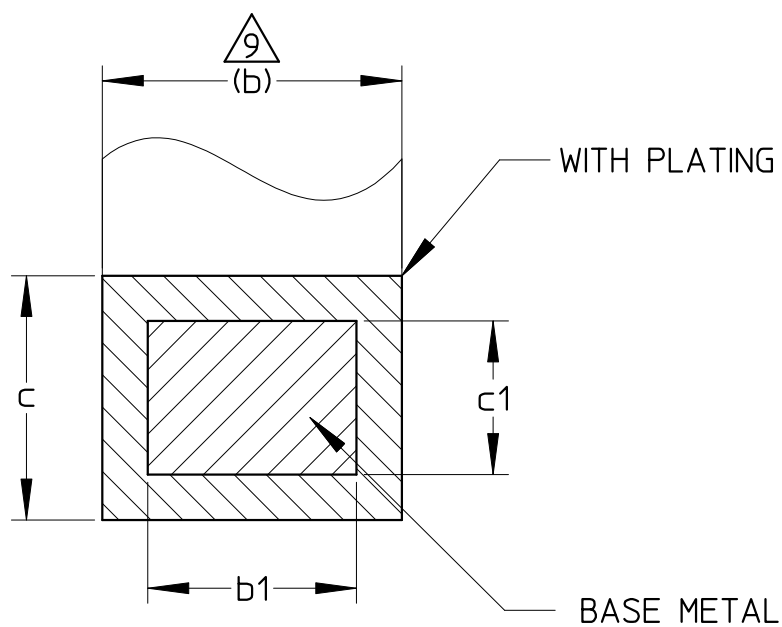




JEDEC SOLID STATE PRODUCT OUTLINES	THIS REGISTERED OUTLINE HAS BEEN PREPARED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USAGE IN THE ELECTRONICS INDUSTRY : CHANGES ARE LIKELY TO OCCUR.					
TITLE	RECTANGULAR PLASTIC QUAD FLAT PACKAGE OUTLINE 1.0 mm THICK BODY 3.20 FOOT PRINT	JESD - 30 DESIGNATOR T-PQFP-G	ISSUE A	DATE 11/98	MO-212	PAGE 1 OF 5

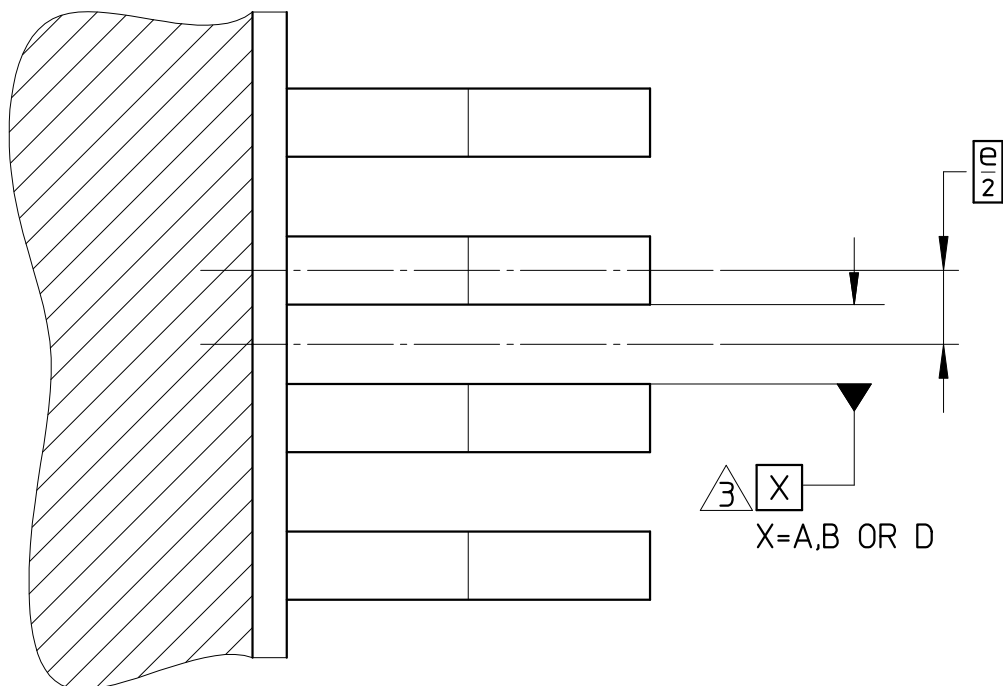


SECTION A-A



SECTION B-B 11

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE RECTANGULAR PLASTIC QUAD FLAT PACKAGE OUTLINE 1.0 mm THICK BODY 3.20 FOOT PRINT	ISSUE A	DATE 11/98	MO-212	PAGE 2 OF 5
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EVEN LEAD SIDES  
TOP VIEW

DETAIL A

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE RECTANGULAR PLASTIC QUAD FLAT PACKAGE OUTLINE 1.0 mm THICK BODY 3.20 FOOT PRINT	ISSUE A	DATE 11/98	MO-212	PAGE 3 OF 5
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VARIATIONS (ALL DIMENSIONS IN MILLIMETERS)				
SYMBOL	AA			
	MINIMUM	NOMINAL	MAXIMUM	NOTE
A	-----	-----	1.20	
A1	0.05	-----	0.15	12
A2	0.95	1.00	1.05	
b	0.22	-----	0.40	9, 11
b1	0.20	0.30	0.36	11
c	0.11	-----	0.23	11
c1	0.11	-----	0.19	11
D	23.20BSC.			4
D1	20.00BSC.			5, 2
e	0.65BSC.			
E	17.20BSC.			4
E1	14.00BSC.			5, 2
L	0.73	-----	1.03	
L1	1.60 REF			
N	100			7
ND	30			7
NE	20			7
R1	0.08	-----	-----	
R2	0.08	-----	0.30	
S	0.20	-----	-----	
θ	0°	4°	8°	
θ1	0°	-----	-----	
θ2	9°	12°	15°	
θ3	9°	12°	15°	
TOLERANCES OF FORM AND POSITION				
aaa	0.20			
bbb	0.20			
ccc	0.10			
ddd	0.13			
NOTE	1, 8			
REF.	11-511			
ISSUE	A			
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## NOTES :

1. ALL DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.

2. THE TOP PACKAGE BODY SIZE MAY BE SMALLER THAN THE BOTTOM PACKAGE BODY SIZE BY AS MUCH AS 0.15mm.

3. DATUMS A-B AND D TO BE DETERMINED AT DATUM PLANE H.

4. TO BE DETERMINED AT SEATING DATUM PLANE C.

5. DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSIONS. ALLOWABLE PROTRUSION IS 0.25mm PER SIDE. DIMENSIONS D1 AND E1 ARE PLASTIC BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH.

6. DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.

7. N IS THE MAXIMUM NUMBER OF TERMINALS. ND AND NE REPRESENT THE NUMBER OF TERMINALS PER SIDES D AND E.

8. ALL DIMENSIONS ARE IN MILLIMETERS.

9. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD WIDTH TO EXCEED THE MAXIMUM b DIMENSION BY MORE THAN 0.08mm. DAMBAR CAN NOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.

10. EXACT SHAPE OF EACH CORNER IS OPTIONAL.

11. THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10mm AND 0.25mm FROM THE LEAD TIP.

12. A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.

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