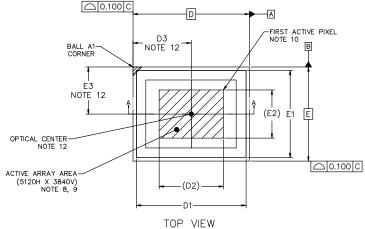
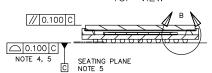


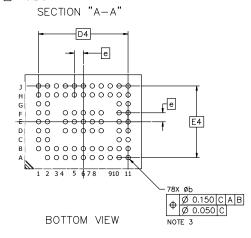


PBGA78 13.00x10.50x1.57, 1.00P CASE 117CV **ISSUE B**

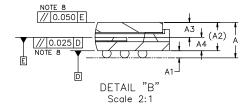
DATE 10 JUN 2025

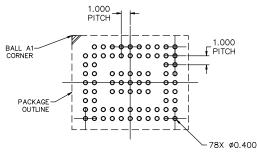






MILLIMETERS DIM MIN MOM MAX Α 2.100 0.350 Α1 0.400 0.450 Α2 .575 REF А3 0.725 0.825 0.925 0.650 0.850 Α4 0.750 0.450 0.500 0.550 Ь D 13.000 BSC D1 12.200 12.300 12.250 D2 7.168 REF D3 6.400 6.500 6.600 Π4 10.000 BSC 10.500 BSC Ε E1 9.700 9.750 9.800 E2 5.376 REF E3 5.150 5.250 5.350 E4 8.000 BSC 1.000 BSC е





RECOMMENDED MOUNTING FOOTPRINT

*For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS [mm]. 2.
- 3. SOLDER BALL DIAMETER IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO DATUM C.
- COPLANARITY APPLIES TO THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- DATUM C, THE SEATING PLANE IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- GLASS: 0.550 THICKNESS; REFRACTIVE INDEX = 1.52. 6.
- AIR GAP BETWEEN GLASS AND PIXEL ARRAY: 0.275 THICKNESS
- PARALLELISM APPLIES ONLY TO THE ACTIVE ARRAY.
- MAXIMUM ROTATION OF ACTIVE ARRAY RELATIVE TO DATUMS A AND B IS ± 1°. 9.
- REFER TO THE DEVICE DATA SHEET FOR TOTAL PIXEL ARRAY DEFINITIONS. 10.
- PACKAGE CENTER (X, Y) = (0.000, 0.000).
- OPTICAL CENTER RELATIVE TO PACKAGE CENTER (X, Y) = (0.000, 0.000).
- PLAIN COVER GLASS WITHOUT AR COATING. 1.3

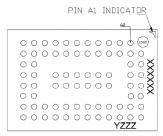
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DATE 10 JUN 2025

GENERIC MARKING DIAGRAM*



XXXX = Specific Device Code

Y = Year

ZZZ = Lot Traceability

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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