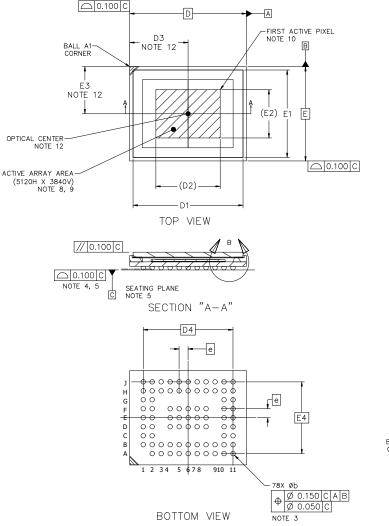


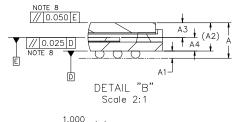
PBGA78 13.00x10.50x1.57, 1.00P CASE 117CV

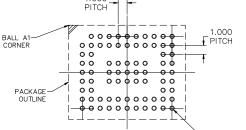
ISSUE A

DATE 21 FEB 2025



MILLIMETERS						
MIN	NOM	MAX				
		2.100				
0.350	0.400	0.450				
1.575 REF						
0.725	0.825	0.925				
0.650	0.750	0.850				
0.450	0.500	0.550				
13.000 BSC						
12.200	12.250	12.300				
7.168 REF						
6.400	6.500	6.600				
10.000 BSC						
10.500 BSC						
9.700	9.750	9.800				
5.376 REF						
5.150	5.250	5.350				
8.000 BSC						
1.000 BSC						
	MIN 0.350 0.725 0.650 0.450 1 12.200 6.400 1 9.700 5.150	MIN NOM 0.400 1.575 REF 0.725 0.825 0.650 0.750 0.450 0.500 13.000 BS0 12.200 12.250 7.168 REF 6.400 6.500 10.000 BS0 9.700 9.750 5.376 REF 5.150 5.250 8.000 BS0				

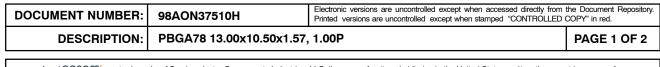




78X Ø0.400

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.



onsemi and OnSemi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. **onsemi** makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.

DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018. 1.

- CONTROLLING DIMENSION: MILLIMETERS [mm]. 2.
- SOLDER BALL DIAMETER IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO DATUM C. 3.
- COPLANARITY APPLIES TO THE SPHERICAL CROWNS OF THE SOLDER BALLS. 4.
- DATUM C, THE SEATING PLANE IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS. 5
- 6. GLASS: 0.550 THICKNESS; REFRACTIVE INDEX = 1.52.
- AIR GAP BETWEEN GLASS AND PIXEL ARRAY: 0.275 THICKNESS. 7.
- 8. PARALLELISM APPLIES ONLY TO THE ACTIVE ARRAY.
- 9. MAXIMUM ROTATION OF ACTIVE ARRAY RELATIVE TO DATUMS A AND B IS \pm 1°.
- 10. REFER TO THE DEVICE DATA SHEET FOR TOTAL PIXEL ARRAY DEFINITIONS.
- 11. PACKAGE CENTER (X, Y) = (0.000, 0.000).
- OPTICAL CENTER RELATIVE TO PACKAGE CENTER (X, Y) = (0.000, 0.000). 12.

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

DATE 21 FEB 2025

GENERIC MARKING DIAGRAM*

PIN A1 INDICATOR

			<u>82</u>	
0.0	000	000	000	(000)
		000		õ
00			0	ୁ×ା
00	00	0000	0 0	୍ଷଧ
00	00	0000	0 0	ଃ
00			0	0~
00	$\circ \circ \circ$	0000	000	0
00	000	0000	0 0 0 V777	0
L			1222	

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.

DOCUMENT NUMBER:	98AON37510H	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	PBGA78 13.00x10.50x1.57, 1.00P		PAGE 2 OF 2	

onsemi and ONSEMI: are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.