



SOT619-27(D)

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

17 February 2020

Package information

1 Package summary

Terminal position code	Q (quad)
Package type descriptive code	HVQFN48
Package style descriptive code	HVQFN (thermal enhanced very thin quad flatpack; no leads)
Package body material type	P (plastic)
Mounting method type	S (surface mount)
Issue date	20-09-2019
Manufacturer package code	98ASA01528D

Table 1. Package summary

Parameter	Min	Nom	Max	Unit
package length	6.9	7	7.1	mm
package width	6.9	7	7.1	mm
seated height	0.8	0.9	1	mm
nominal pitch	-	0.5	-	mm
actual quantity of termination	-	48	-	



HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

2 Package outline

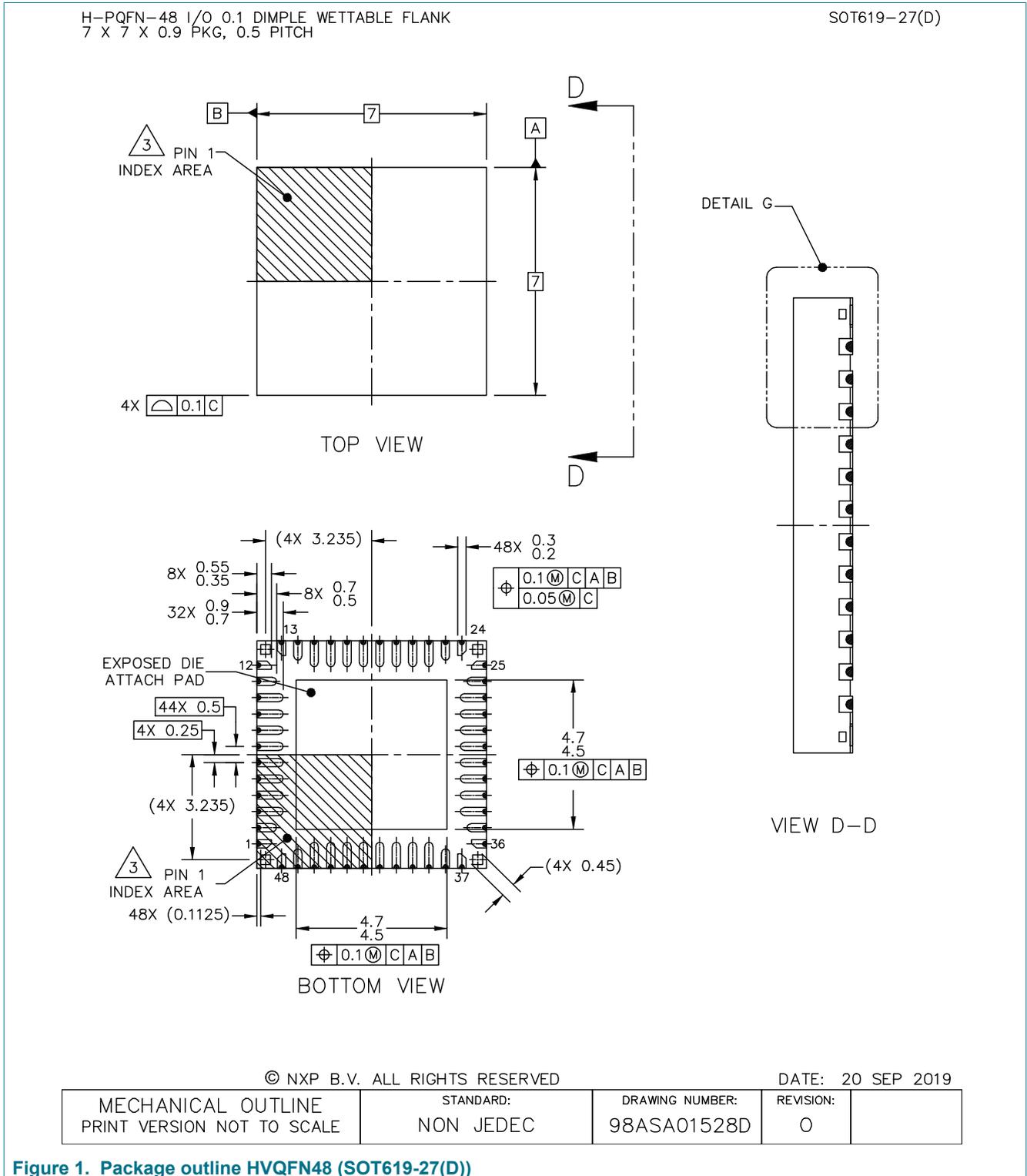
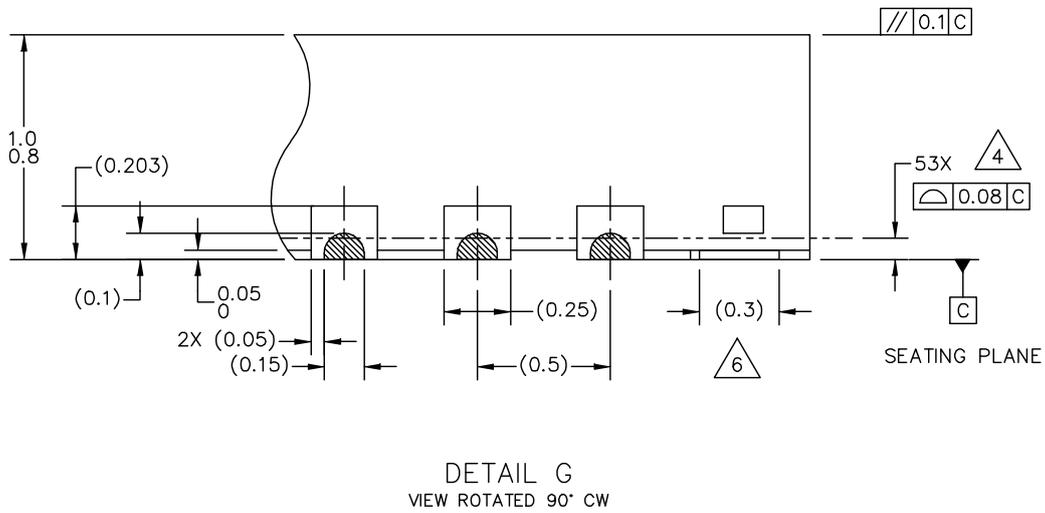


Figure 1. Package outline HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

H-PQFN-48 I/O 0.1 DIMPLE WETTABLE FLANK
7 X 7 X 0.9 PKG, 0.5 PITCH

SOT619-27(D)



© NXP B.V. ALL RIGHTS RESERVED		DATE: 20 SEP 2019		
MECHANICAL OUTLINE PRINT VERSION NOT TO SCALE	STANDARD: NON JEDEC	DRAWING NUMBER: 98ASA01528D	REVISION: 0	

Figure 2. Package outline detail HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

3 Soldering

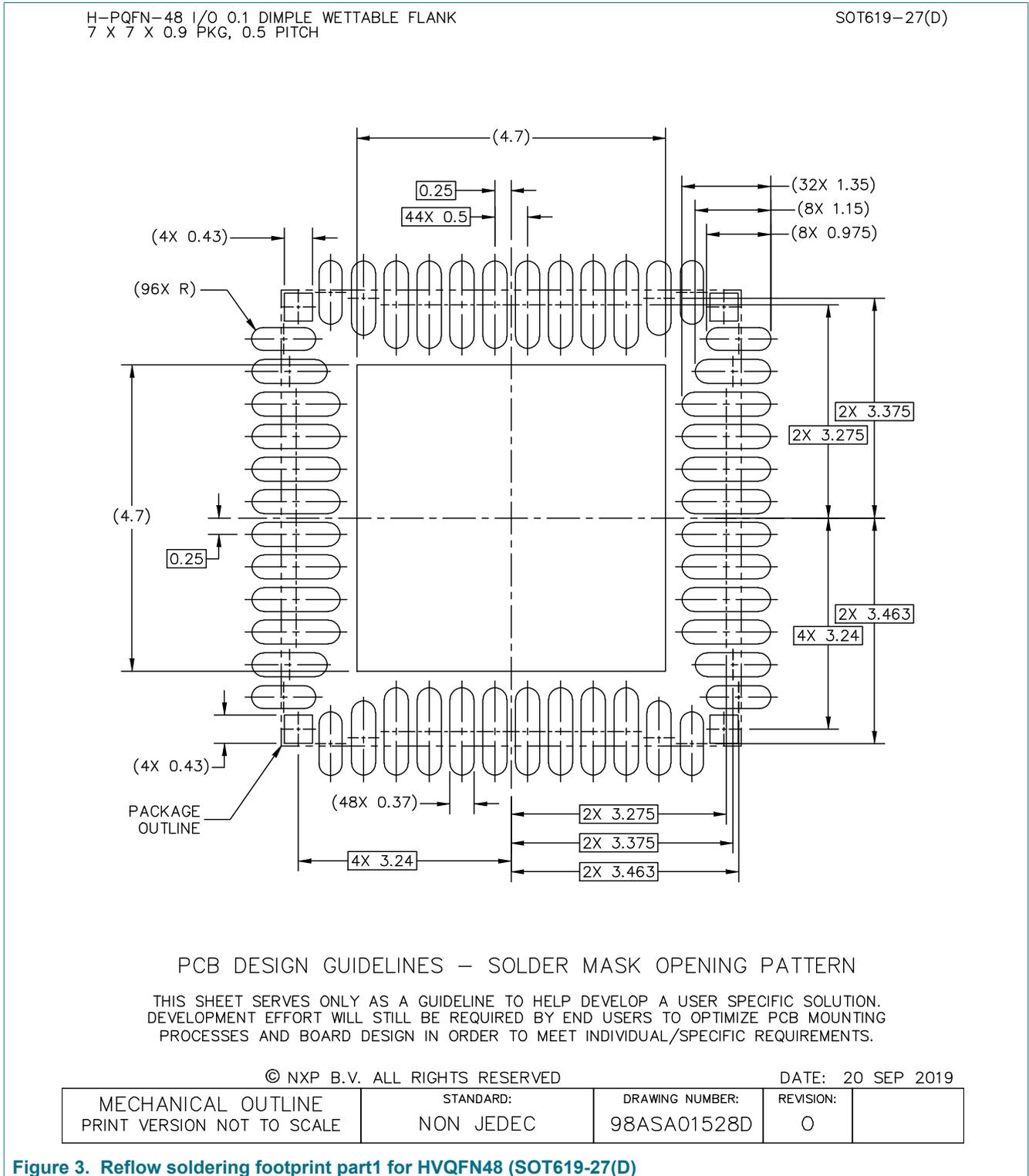


Figure 3. Reflow soldering footprint part1 for HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

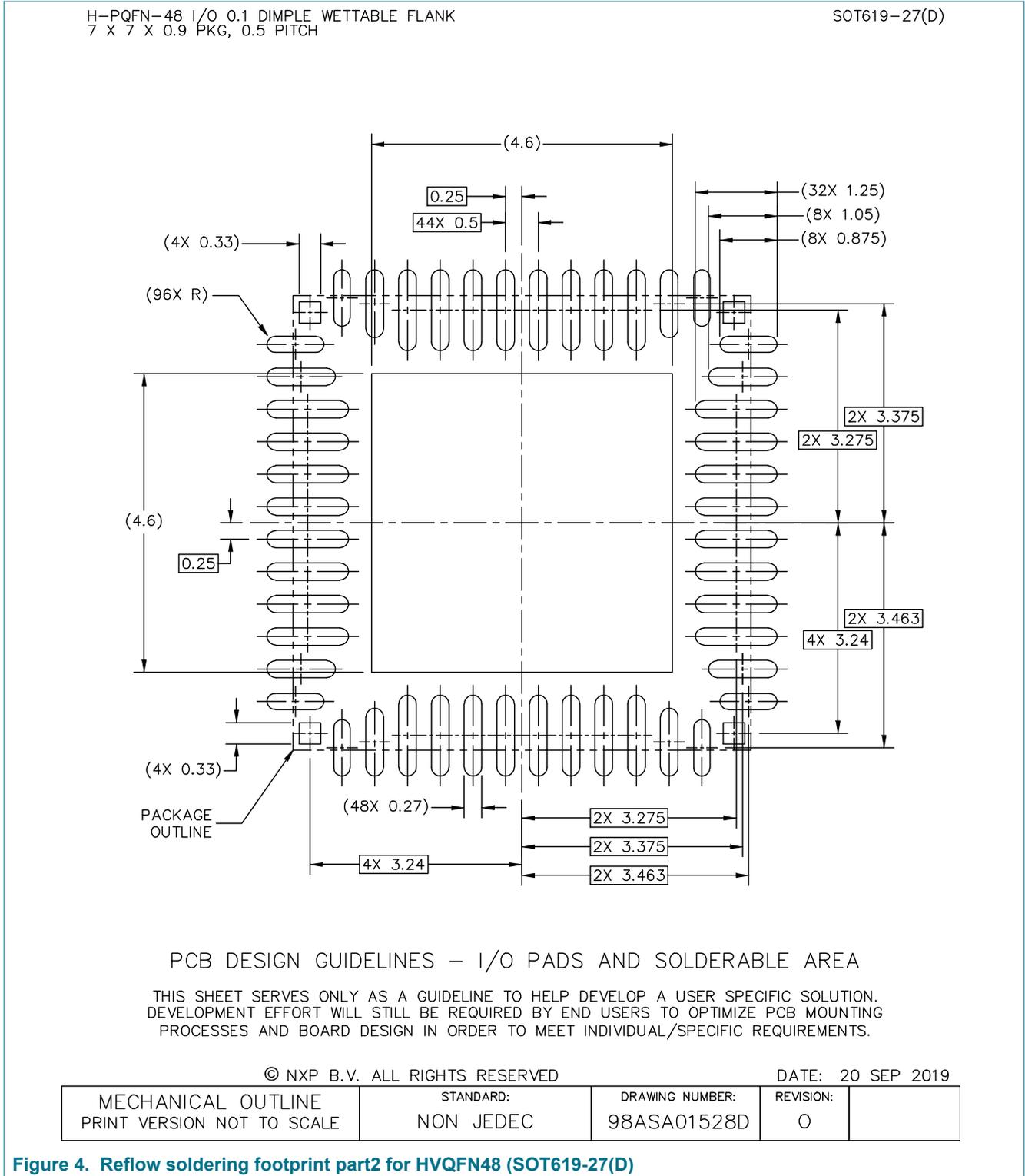


Figure 4. Reflow soldering footprint part2 for HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

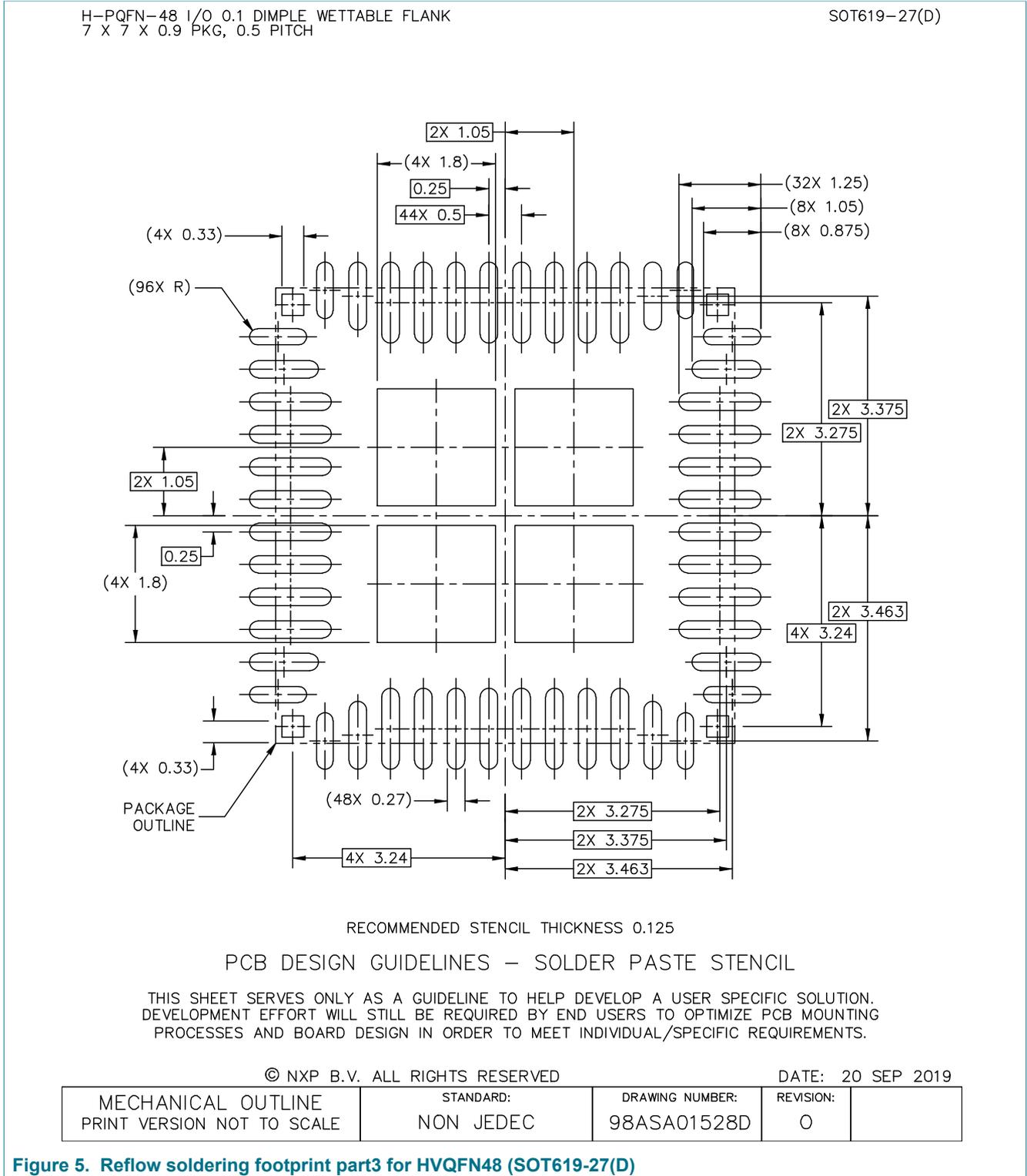


Figure 5. Reflow soldering footprint part3 for HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals; 0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

H-PQFN-48 I/O 0.1 DIMPLE WETTABLE FLANK
7 X 7 X 0.9 PKG, 0.5 PITCH

SOT619-27(D)

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- 3. PIN 1 FEATURE SHAPE, SIZE AND LOCATION MAY VARY.
- 4. COPLANARITY APPLIES TO LEADS AND DIE ATTACH PAD.
- 5. MIN. METAL GAP FOR LEAD TO EXPOSED PAD SHALL BE 0.2 MM.
- 6. ANCHORING PADS.

© NXP B.V. ALL RIGHTS RESERVED

DATE: 20 SEP 2019

MECHANICAL OUTLINE PRINT VERSION NOT TO SCALE	STANDARD: NON JEDEC	DRAWING NUMBER: 98ASA01528D	REVISION: 0	
--	------------------------	--------------------------------	----------------	--

Figure 6. Package outline note HVQFN48 (SOT619-27(D))

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals;
0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

4 Legal information

Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

HVQFN48, thermal enhanced very thin quad flat package; no leads; dimple wettable flank; 48 terminals;
0.5 mm pitch, 7 mm x 7 mm x 0.9 mm body

Contents

1	Package summary	1
2	Package outline	2
3	Soldering	4
4	Legal information	8