

# SOT917-6(DD)

HVQFN20, plastic thermal enchanced very thin quad flat package; no leads; 20 terminals; 0.125 dimple wettable flank, 0.5 mm pitch, 4 mm x 4 mm 0.85 mm body

7 July 2022

Package information

## 1 Package summary

Terminal position code Q (quad)

Package type descriptive code HVQFN20

Package style descriptive code HVQFN (thermal enhanced very thin quad

flatpack; no leads)

Mounting method type S (surface mount)

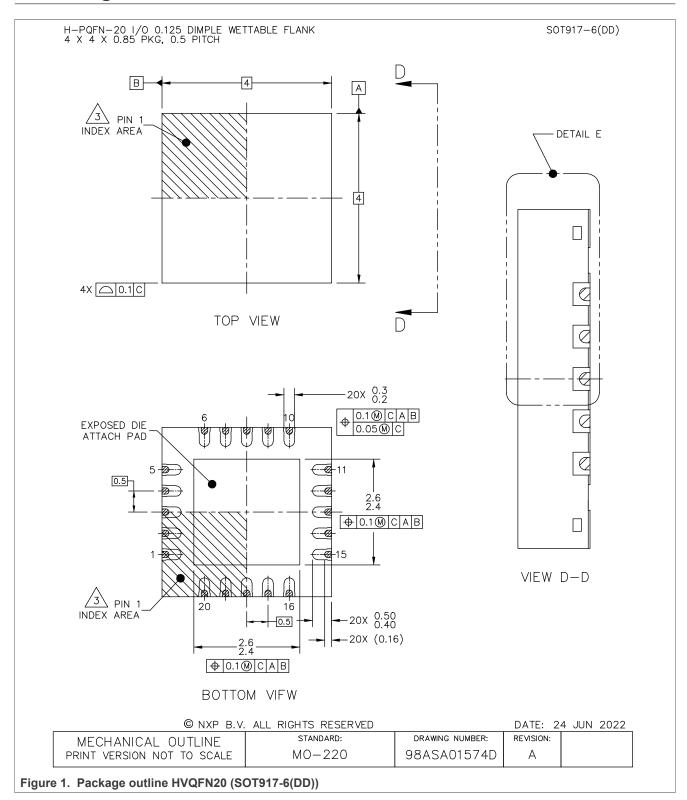
Issue date24-06-2022Manufacturer package code98ASA01574D

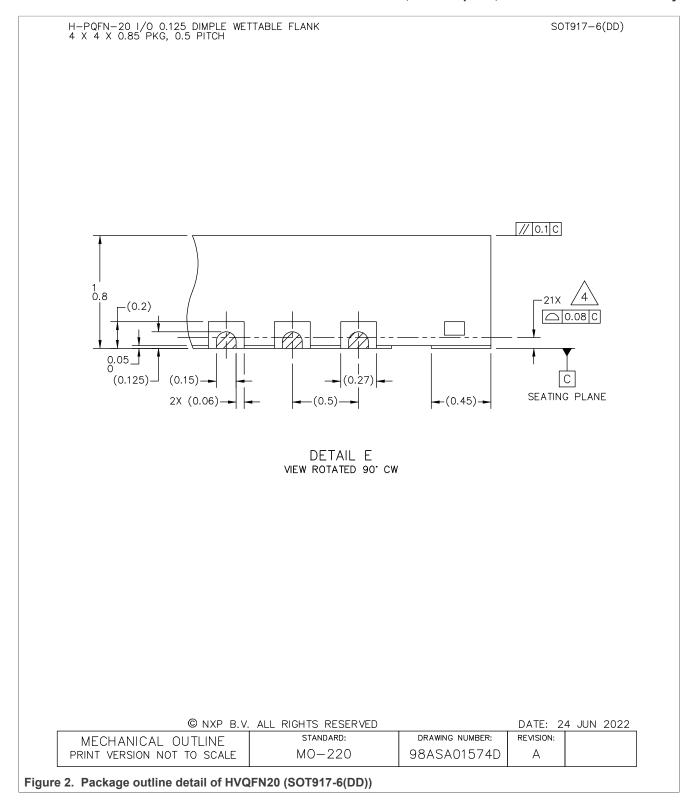
Table 1. Package summary

Parameter	Min	Nom	Max	Unit
package length	3.9	4	4.1	mm
package width	3.9	4	4.1	mm
package height	0.8	0.85	1	mm
nominal pitch	-	0.5	-	mm
actual quantity of termination	-	20	-	

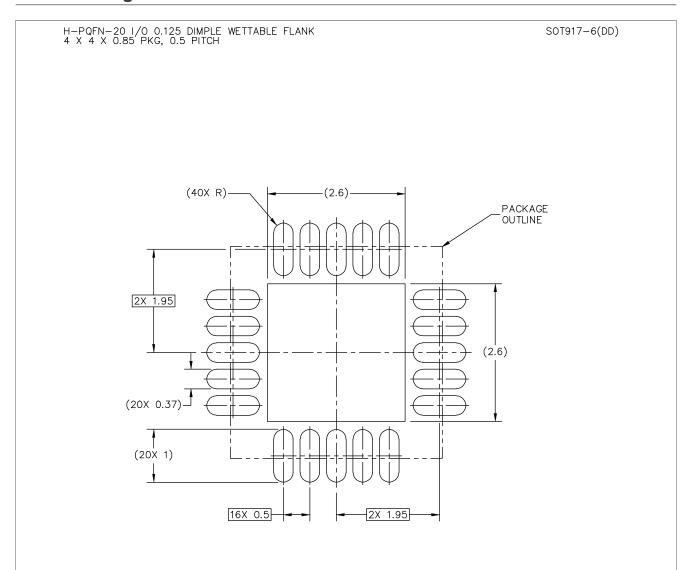


## 2 Package outline





### 3 Soldering

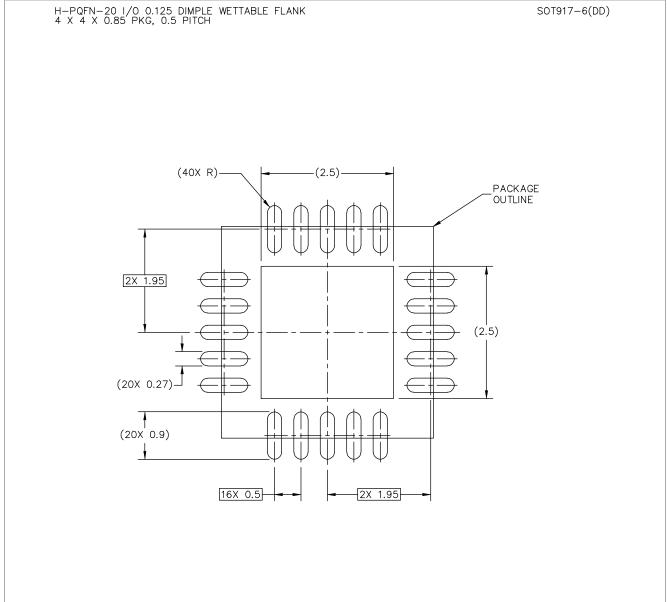


## PCB DESIGN GUIDELINES RECOMMENDED SOLDER MASK OPENING PATTERN

THIS SHEET SERVES ONLY AS A GUIDELINE TO HELP DEVELOP A USER SPECIFIC SOLUTION. DEVELOPMENT EFFORT WILL STILL BE REQUIRED BY END USERS TO OPTIMIZE PCB MOUNTING PROCESSES AND BOARD DESIGN IN ORDER TO MEET INDIVIDUAL/SPECIFIC REQUIREMENTS.

© NXP B.V.	. ALL RIGHTS RESERVED		DATE: 2	4 JUN 2022
MECHANICAL OUTLINE	STANDARD:	DRAWING NUMBER:	REVISION:	
PRINT VERSION NOT TO SCALE	MO-220	98ASA01574D	Α	

Figure 3. Reflow soldering footprint part1 for HVQFN20 (SOT917-6(DD))



## PCB DESIGN GUIDELINES RECOMMENDED I/O PADS AND SOLDERABLE AREA

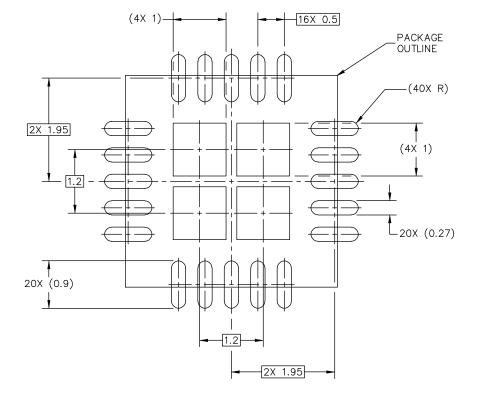
THIS SHEET SERVES ONLY AS A GUIDELINE TO HELP DEVELOP A USER SPECIFIC SOLUTION. DEVELOPMENT EFFORT WILL STILL BE REQUIRED BY END USERS TO OPTIMIZE PCB MOUNTING PROCESSES AND BOARD DESIGN IN ORDER TO MEET INDIVIDUAL/SPECIFIC REQUIREMENTS.

© NXP B.V.	ALL RIGHTS RESERVED		DATE: 2	4 JUN 2022
MECHANICAL OUTLINE	STANDARD:	DRAWING NUMBER:	REVISION:	
PRINT VERSION NOT TO SCALE	MO - 220	98ASA01574D	А	

Figure 4. Reflow soldering footprint part2 for HVQFN20 (SOT917-6(DD))

H-PQFN-20 I/O 0.125 DIMPLE WETTABLE FLANK
4 X 4 X 0.85 PKG, 0.5 PITCH

SOT917-6(DD)



RECOMMENDED STENCIL THICKNESS 0.125 OR 0.150

PCB DESIGN GUIDELINES - RECOMMENDED SOLDER PASTE STENCIL

THIS SHEET SERVES ONLY AS A GUIDELINE TO HELP DEVELOP A USER SPECIFIC SOLUTION. DEVELOPMENT EFFORT WILL STILL BE REQUIRED BY END USERS TO OPTIMIZE PCB MOUNTING PROCESSES AND BOARD DESIGN IN ORDER TO MEET INDIVIDUAL/SPECIFIC REQUIREMENTS.

© NXP B.V. ALL RIGHTS RESERVED

MECHANICAL OUTLINE STANDARD: DRAWING NUMBER: REVISION: PRINT VERSION NOT TO SCALE MO-220

DATE: 24 JUN 2022

DRAWING NUMBER: REVISION: A PRINT VERSION NOT TO SCALE MO-220

Figure 5. Reflow soldering footprint part3 for HVQFN20 (SOT917-6(DD))

 $\mbox{H-PQFN-}20$  ]/O 0.125 DIMPLE WETTABLE FLANK 4 X 4 X 0.85 PKG, 0.5 PITCH SOT917-6(DD) 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, DIE ATTACH FLAG. 5. MIN. METAL GAP SHOULD BE 0.2 MM. © NXP B.V. ALL RIGHTS RESERVED DATE: 24 JUN 2022 STANDARD: DRAWING NUMBER: REVISION: MECHANICAL OUTLINE PRINT VERSION NOT TO SCALE MO - 22098ASA01574D Α

SOT	917	7-60	DD.

Figure 6. Package outline note HVQFN20 (SOT917-6(DD))

### 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.

#### **NXP Semiconductors**

SOT917-6(DD)

HVQFN20, plastic thermal enchanced very thin quad flat package; no leads; 20 terminals; 0.125 dimple wettable flank, 0.5 mm pitch, 4 mm x 4 mm 0.85 mm body

### **Contents**

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