SOT1688-3(DD)

HLQFN16; plastic, thermal enhanced low profile quad flat non-leaded package, dimple wettable flank; 16 terminals; 0.8 mm pitch; 4 mm x 4 mm x 1.45 mm body

10 March 2025 Package information



1 Package summary

Terminal position code Q (quad)
Package type descriptive code HLQFN16

Package style descriptive code HLQFN (thermal enhanced low profile quad flatpack; no

leads)

Package body material type P (plastic)

Mounting method type S (surface mount)

Issue date 07-03-2025

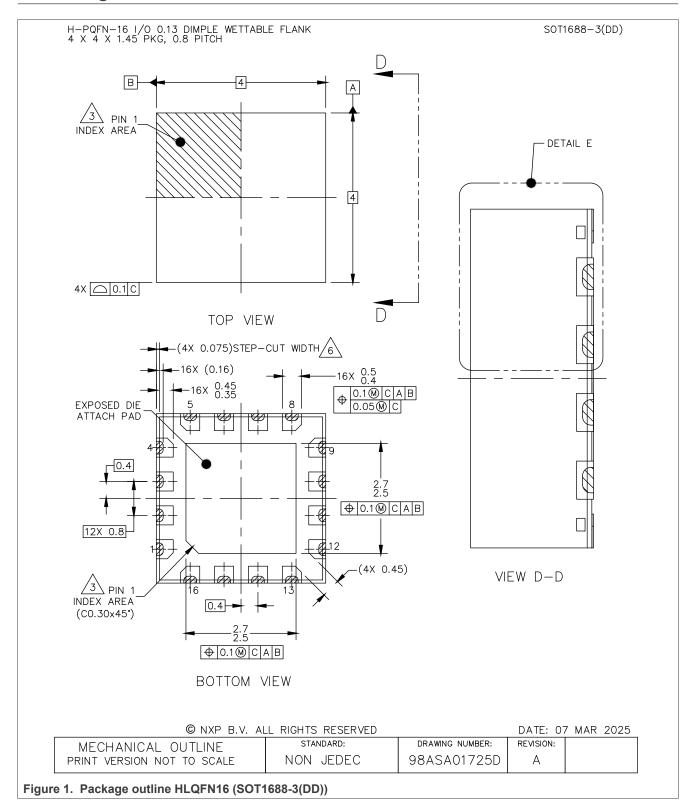
Manufacturer package code 98ASA01725D

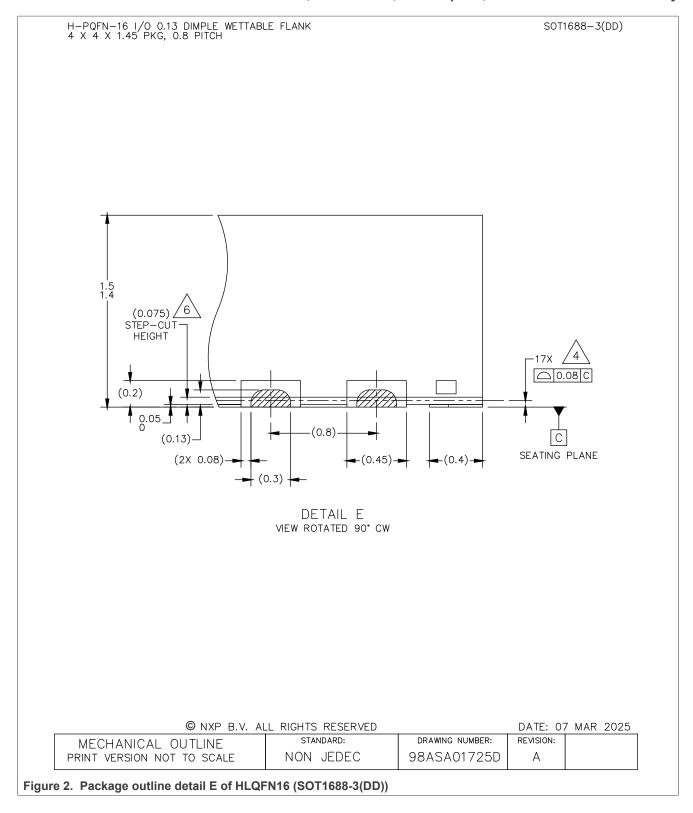
Table 1. Package summary

Parameter	Min	Nom	Max	Unit
rarameter	IVIIII	NOIII	IVIAX	Ullit
package length	3.9	4	4.1	mm
package width	3.9	4	4.1	mm
seated height	1.4	1.45	1.5	mm
nominal pitch	-	0.8	-	mm
actual quantity of termination	-	16	-	

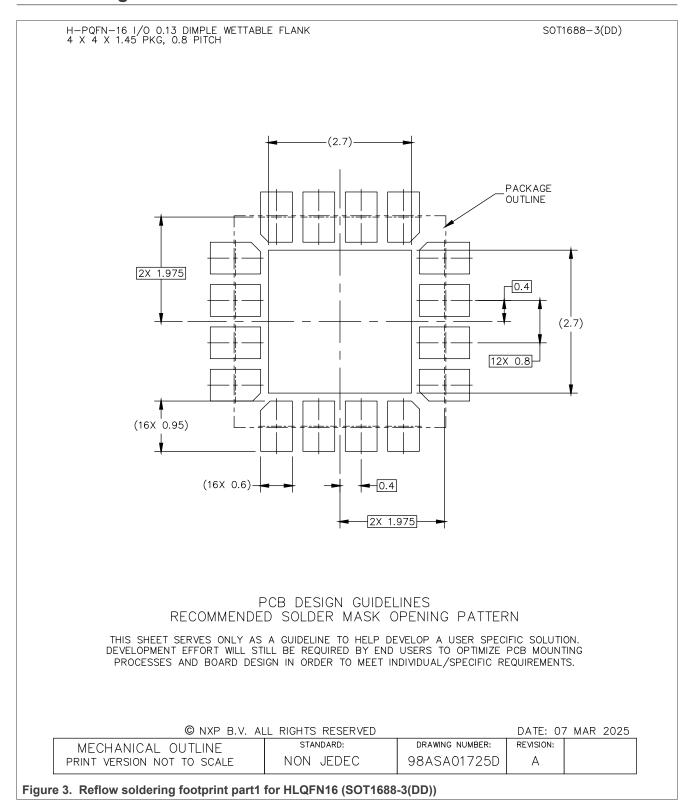


2 Package outline





3 Soldering



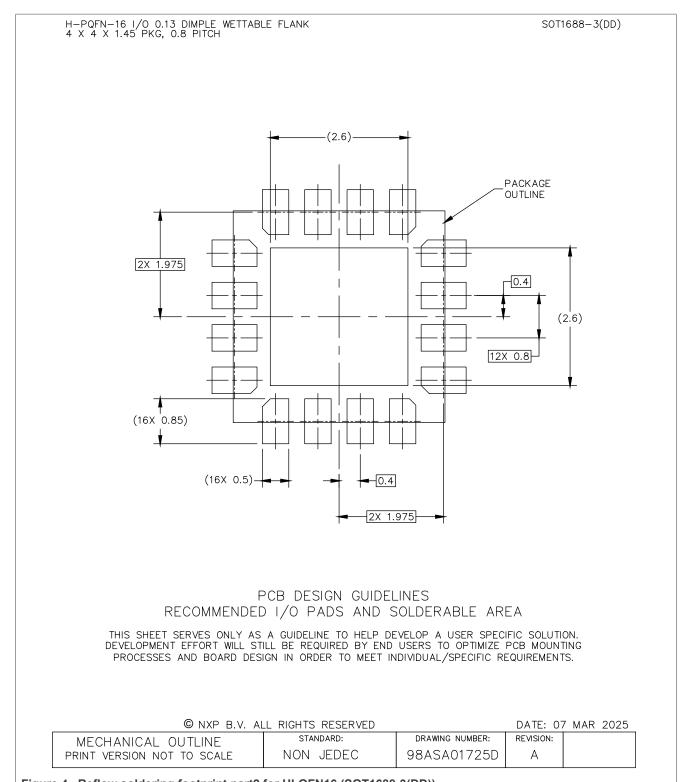
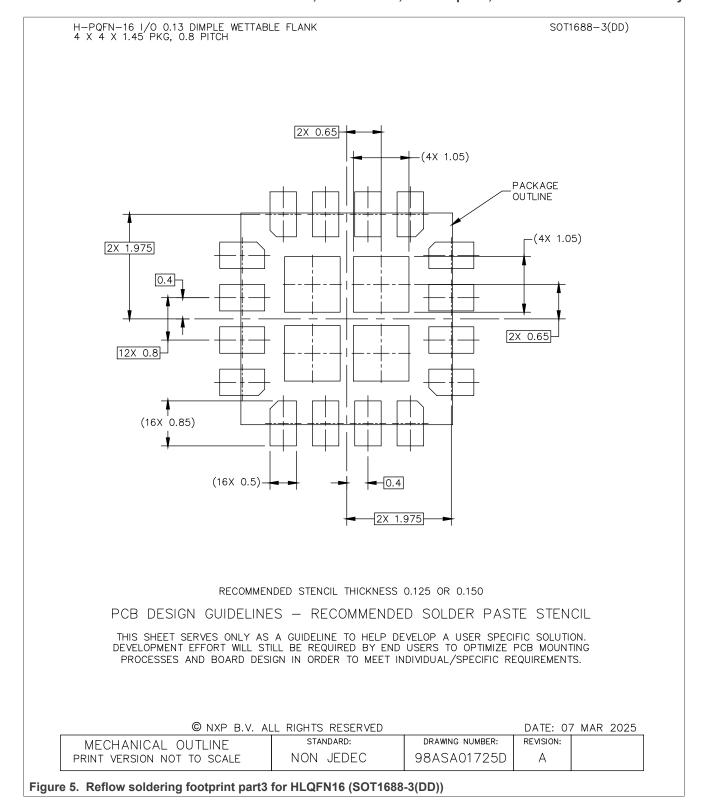
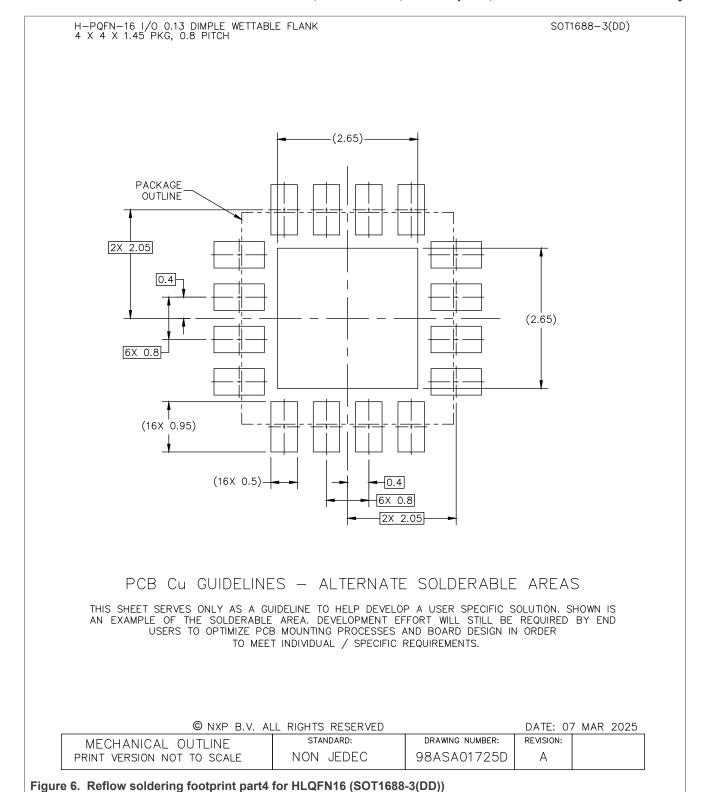
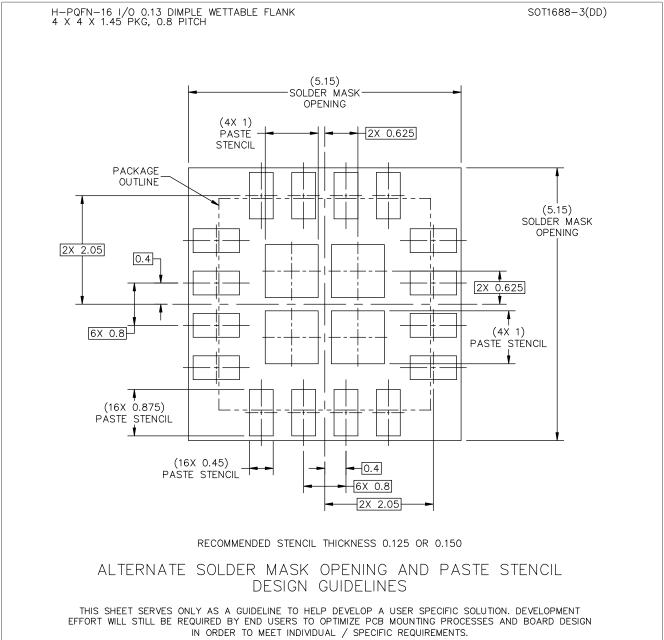


Figure 4. Reflow soldering footprint part2 for HLQFN16 (SOT1688-3(DD))







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Figure 7. Reflow soldering footprint part5 for HLQFN16 (SOT1688-3(DD))

H-PQFN-16 I/O 0.13 DIMPLE WETTABLE FLANK 4 X 4 X 1.45 PKG, 0.8 PITCH SOT1688-3(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 0.25 MM. 6. STEP-CUT IS APPLIED FOR BURR REMOVAL ONLY. DATE: 07 MAR 2025 © NXP B.V. ALL RIGHTS RESERVED STANDARD: DRAWING NUMBER: REVISION: MECHANICAL OUTLINE NON JEDEC 98ASA01725D Α PRINT VERSION NOT TO SCALE

Figure 8. Package outline note HLQFN16 (SOT1688-3(DD))

4 Legal information

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