

SOT1571-6

HLQFP48, plastic, thermal enhanced low profile quad flat package; 48 terminals; 0.5 mm pitch; 7 mm x 7 mm x 1.5 mm body; 4.4 mm x 4.4 mm exposed pad

20 April 2022

Package information

1 Package summary

Terminal position code Q (quad)
Package type descriptive code HLQFP48

Package style descriptive code HLQFP (thermal enhanced low profile quad flat

package)

Package body material type P (plastic)

Mounting method type S (surface mount)

Issue date 30-03-2022

Manufacturer package code 98ASA00945D

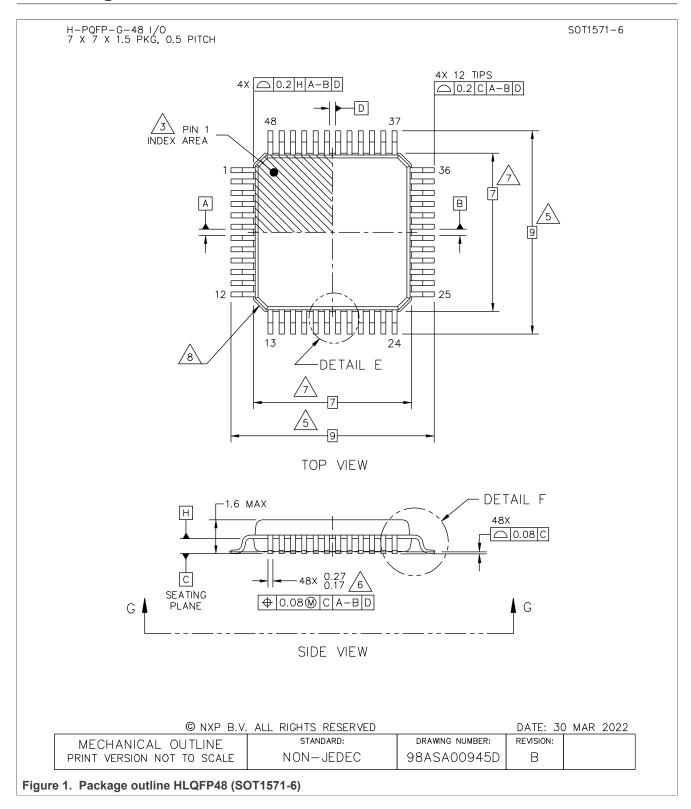
Table 1. Package summary

Parameter	Min	Nom	Max	Unit
package length	-	7	-	mm
package width	-	7	-	mm
seated height	-	1.5	-	mm
package height	-	1.4	-	mm
nominal pitch	-	0.5	-	mm
actual quantity of termination	-	48	-	

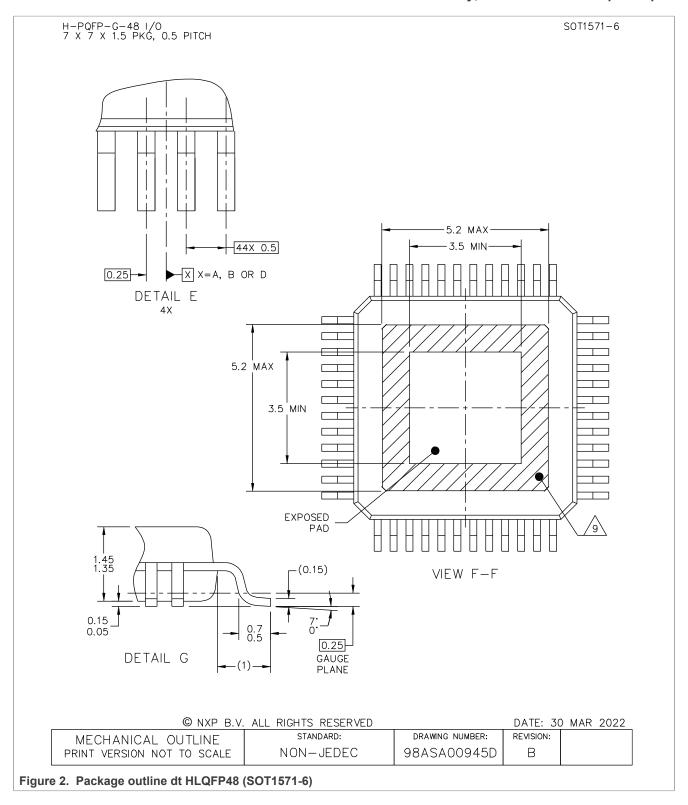


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2 Package outline



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H-PQFP-G-48 I/O 7 X 7 X 1.5 PKG, 0.5 PITCH SOT1571-6

NOTES:

- 1. DIMENSIONS ARE IN MILLIMETERS.
- 2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- $\frac{1}{3}$ PIN 1 FEATURE SHAPE, SIZE AND LOCATION MAY VARY.
- 4. DATUMS A, B AND D TO BE DETERMINED AT DATUM PLANE H.
- 5 DIMENSION TO BE DETERMINED AT SEATING PLANE C.

THIS DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD WIDTH TO EXCEED THE UPPER LIMIT BY MORE THAN 0.08MM AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND ADJACENT LEAD SHALL NOT BE LESS THAN 0.07MM.

THIS DIMENSION DOES NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS 0.25MM PER SIDE. THIS DIMENSION IS MAXIMUM PLASTIC BODY SIZE DIMENSION INCLUDING MOLD MISMATCH.

& EXACT SHAPE OF EACH CORNER IS OPTIONAL.

) HATCHED AREA REPRESENTS POSSIBLE MOLD FLASH ON EXPOSED PAD.

KEEP OUT ZONE REPRESENTS AREA ON PCB THAT MUST NOT HAVE ANY EXPOSED METAL (TRACE/VIA) FOR PCB ROUTING DUE TO THE POSSIBILITY OF SHORTING TO TIE BAR/EXPOSED PAD.

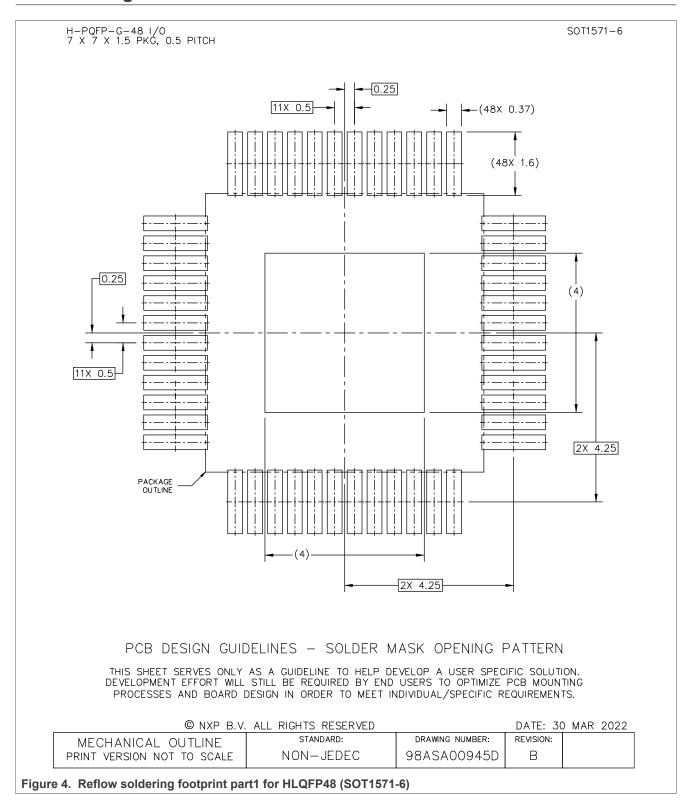
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MECHANICAL OUTLINE	STANDARD:	DRAWING NUMBER:	REVISION:	
PRINT VERSION NOT TO SCALE	NON-JEDEC	98ASA00945D	В	

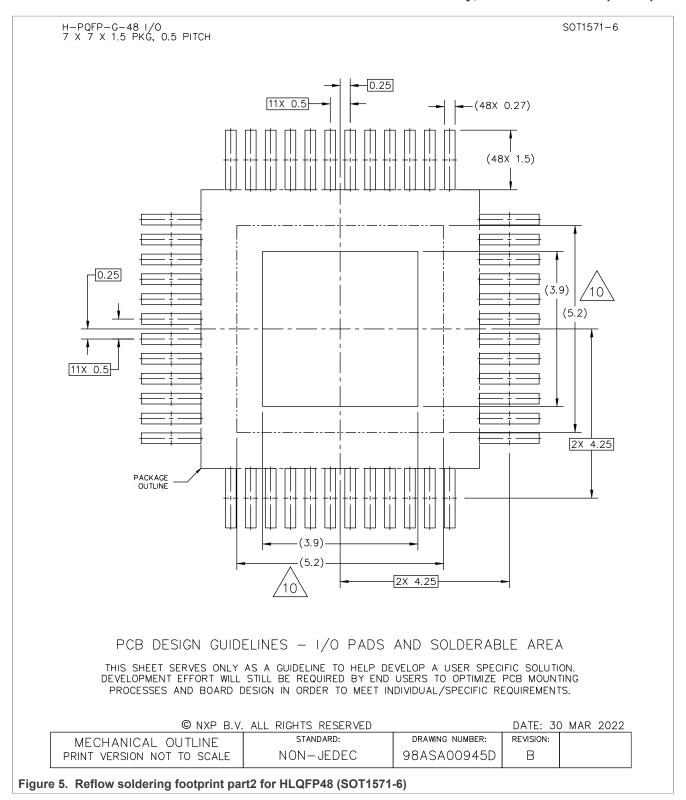
Figure 3. Package outline note HLQFP48 (SOT1571-6)

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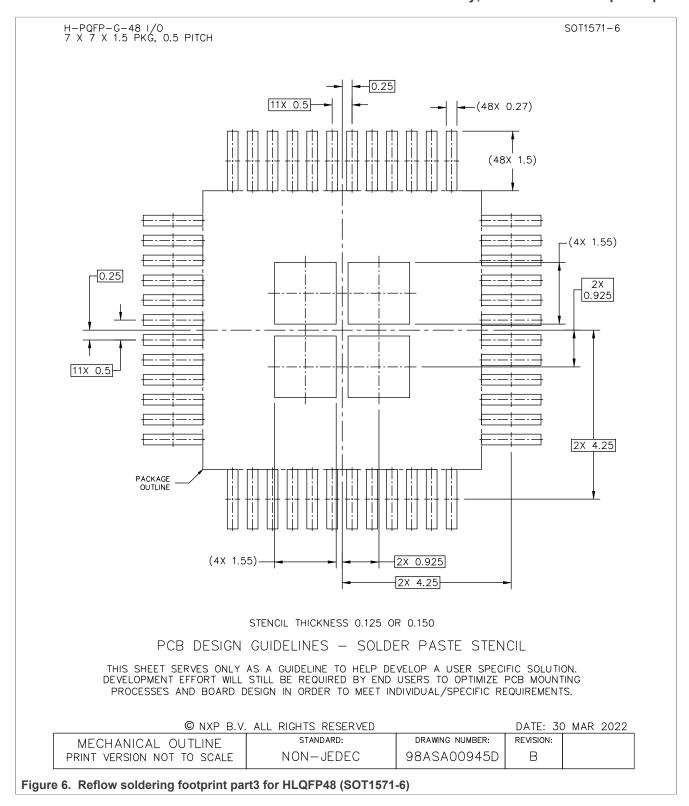
3 Soldering



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