



PowerPAD™ TSSOP - 1.2 mm max height

Technical drawing of a 20-pin connector. The drawing includes a top view, a side view, and a detail view (Detail A).

Top View Dimensions:

- Overall width: 6.6 TYP, 6.2
- Pin 1 Index Area: 6.6, 6.4, NOTE 3
- Pin pitch: 18X 0.65
- Pin length: 20
- Pin width: 2X 5.85
- Pin spacing: 20X 0.30, 0.17
- Pin diameter: 0.1
- Pin material: C A B
- Pin finish: 4X (0°-12°)
- Pin 11: 20X 0.30, 0.17
- Pin 10: 2X 0.7 MAX, NOTE 5
- Pin 11: 2X 0.27 MAX, NOTE 5
- Pin 21: THERMAL PAD
- Pin 20: 2.79, 2.24
- Pin 1: 3.64, 2.94
- Pin 10: 10
- Pin 11: 11
- Pin 20: 20
- Pin 1: 1

Side View Dimensions:

- Overall height: 6.6 TYP, 6.2
- Pin 1 Index Area: 6.6, 6.4, NOTE 3
- Pin pitch: 18X 0.65
- Pin length: 20
- Pin width: 2X 5.85
- Pin spacing: 20X 0.30, 0.17
- Pin diameter: 0.1
- Pin material: C A B
- Pin finish: 4X (0°-12°)
- Pin 11: 20X 0.30, 0.17
- Pin 10: 2X 0.7 MAX, NOTE 5
- Pin 11: 2X 0.27 MAX, NOTE 5
- Pin 21: THERMAL PAD
- Pin 20: 2.79, 2.24
- Pin 1: 3.64, 2.94
- Pin 10: 10
- Pin 11: 11
- Pin 20: 20
- Pin 1: 1

Detail A Dimensions:

- Overall width: 6.6 TYP, 6.2
- Pin 1 Index Area: 6.6, 6.4, NOTE 3
- Pin pitch: 18X 0.65
- Pin length: 20
- Pin width: 2X 5.85
- Pin spacing: 20X 0.30, 0.17
- Pin diameter: 0.1
- Pin material: C A B
- Pin finish: 4X (0°-12°)
- Pin 11: 20X 0.30, 0.17
- Pin 10: 2X 0.7 MAX, NOTE 5
- Pin 11: 2X 0.27 MAX, NOTE 5
- Pin 21: THERMAL PAD
- Pin 20: 2.79, 2.24
- Pin 1: 3.64, 2.94
- Pin 10: 10
- Pin 11: 11
- Pin 20: 20
- Pin 1: 1

Callouts:

- SEE DETAIL A
- (0.15) TYP
- GAGE PLANE
- 0.25
- 0.75
- 0.50
- 1.2 MAX
- 0.15
- 0.05
- 0°-8°
- DETAIL A TYPICAL

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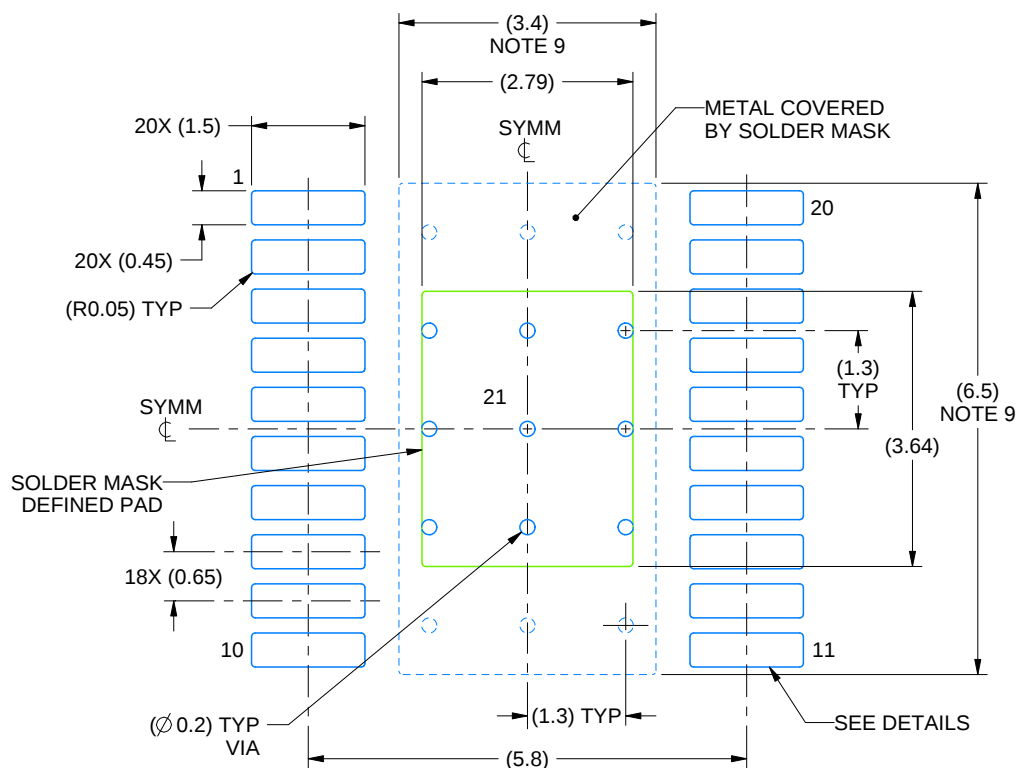
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm per side.
4. Reference JEDEC registration MO-153.
5. Features may differ or may not be present.

EXAMPLE BOARD LAYOUT

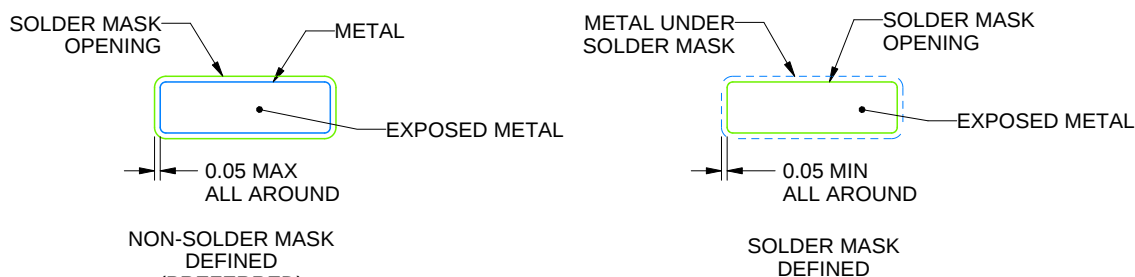
PWP0020W

PowerPAD™ TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE: 10X



SOLDER MASK DETAILS

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NOTES: (continued)

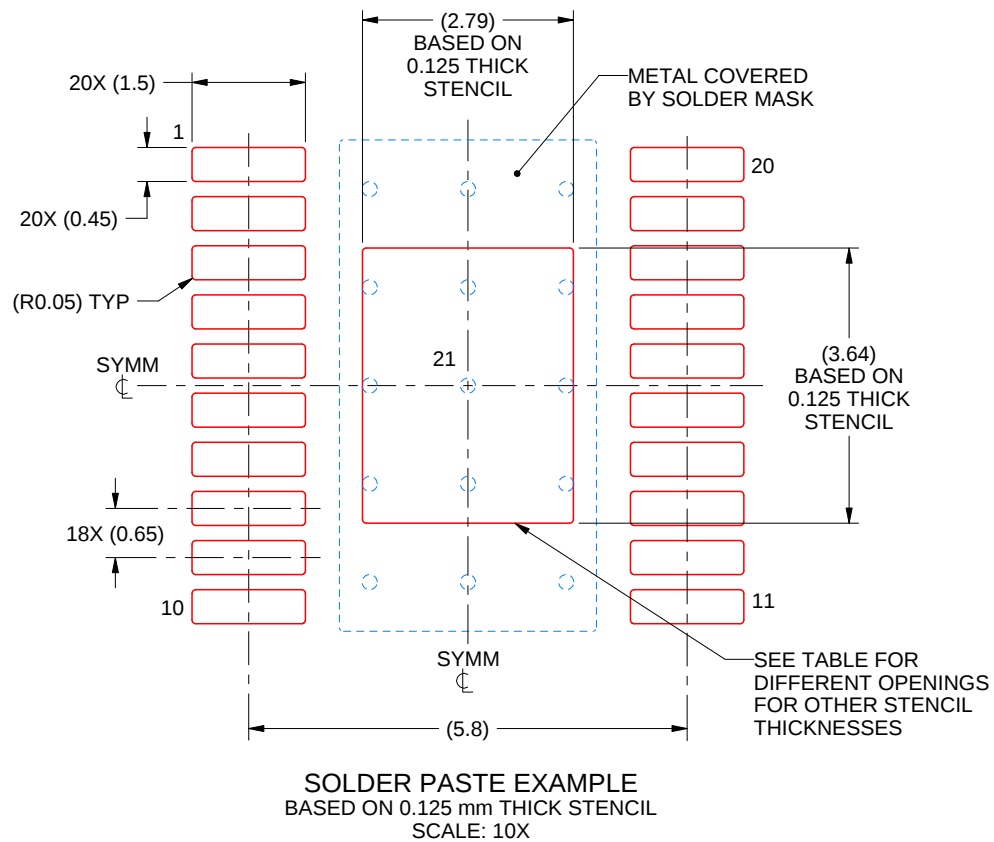
6. Publication IPC-7351 may have alternate designs.
7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.
8. This package is designed to be soldered to a thermal pad on the board. For more information, see Texas Instruments literature numbers SLMA002 (www.ti.com/lit/slma002) and SLMA004 (www.ti.com/lit/slma004).
9. Size of metal pad may vary due to creepage requirement.
10. Vias are optional depending on application, refer to device data sheet. It is recommended that vias under paste be filled, plugged or tented.

EXAMPLE STENCIL DESIGN

PWP0020W

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SMALL OUTLINE PACKAGE



STENCIL THICKNESS	SOLDER STENCIL OPENING
0.1	3.12 X 4.07
0.125	2.79 X 3.64 (SHOWN)
0.15	2.55 X 3.32
0.175	2.36 X 3.08

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NOTES: (continued)

11. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
12. Board assembly site may have different recommendations for stencil design.

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