

# SoundginZ

## Packaging Information

The SoundginZ is available in three standard sized packages:

- 14-Lead SOIC
- 20-Lead SOIC
- 20-Lead PDIP

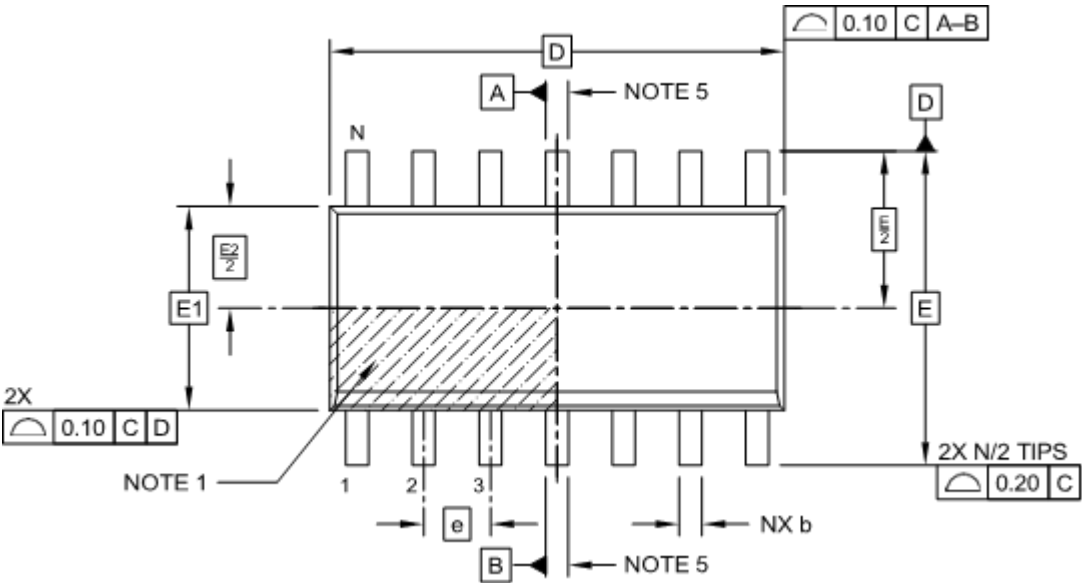
14 Pin:

- Vdd = Pin 1.
- Vss = Pin 14
- Audio Out = Pin 10
- Reset = Pin 8

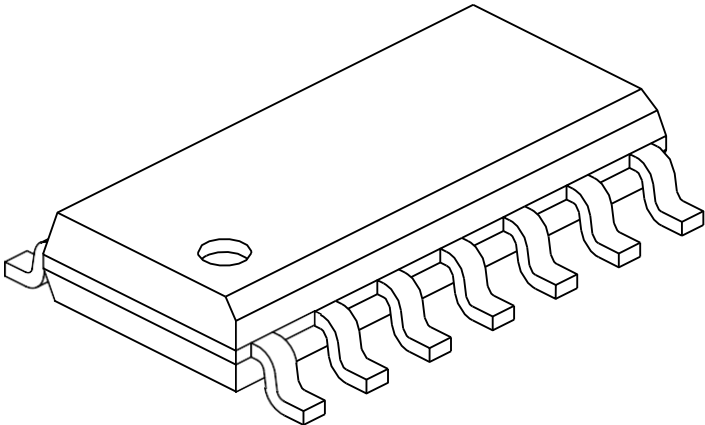
20 Pin

- Vdd = Pin 1.
- Vss = Pin 20
- Audio Out = Pin 16
- Reset = Pin 11

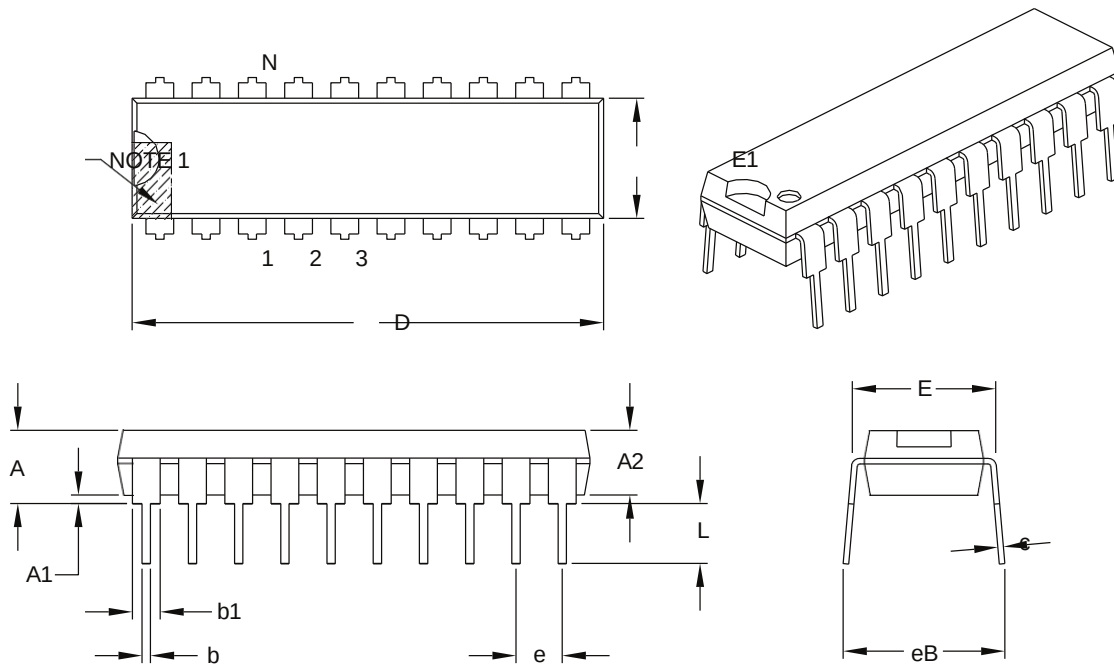
14-Lead SOIC (3.90 mm)



| Units                    |          | MILLIMETERS |     |      |
|--------------------------|----------|-------------|-----|------|
| Dimension Limits         |          | MIN         | NOM | MAX  |
| Number of Pins           | N        | 14          |     |      |
| Pitch                    | e        | 1.27 BSC    |     |      |
| Overall Height           | A        | -           | -   | 1.75 |
| Molded Package Thickness | A2       | 1.25        | -   | -    |
| Standoff $\delta$        | A1       | 0.10        | -   | 0.25 |
| Overall Width            | E        | 6.00 BSC    |     |      |
| Molded Package Width     | E1       | 3.90 BSC    |     |      |
| Overall Length           | D        | 8.65 BSC    |     |      |
| Chamfer (Optional)       | h        | 0.25        | -   | 0.50 |
| Foot Length              | L        | 0.40        | -   | 1.27 |
| Footprint                | L1       | 1.04 REF    |     |      |
| Lead Angle               | $\theta$ | 0°          | -   | -    |
| Foot Angle               | $\phi$   | 0°          | -   | 8°   |
| Lead Thickness           | c        | 0.10        | -   | 0.25 |
| Lead Width               | b        | 0.31        | -   | 0.51 |
| Mold Draft Angle Top     | $\alpha$ | 5°          | -   | 15°  |
| Mold Draft Angle Bottom  | $\beta$  | 5°          | -   | 15°  |



# 20-Lead PDIP (300 mil)



| Dimension Limits           | Units | INCHES   |       |       |
|----------------------------|-------|----------|-------|-------|
|                            |       | MIN      | NOM   | MAX   |
| Number of Pins             | N     | 20       |       |       |
| Pitch                      | e     | .100 BSC |       |       |
| Top to Seating Plane       | A     | —        | —     | .210  |
| Molded Package Thickness   | A2    | .115     | .130  | .195  |
| Base to Seating Plane      | A1    | .015     | —     | —     |
| Shoulder to Shoulder Width | E     | .300     | .310  | .325  |
| Molded Package Width       | E1    | .240     | .250  | .280  |
| Overall Length             | D     | .980     | 1.030 | 1.060 |
| Tip to Seating Plane       | L     | .115     | .130  | .150  |
| Lead Thickness             | c     | .008     | .010  | .015  |
| Upper Lead Width           | b1    | .045     | .060  | .070  |
| Lower Lead Width           | b     | .014     | .018  | .022  |
| Overall Row Spacing §      | eB    | —        | —     | .430  |