

## TAPE AND REEL INFORMATION



\*All dimensions are nominal

| Device      | Package Type | Package Drawing | Pins | SPQ  | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|-------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| TL051CDR    | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL052ACDR   | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL052AIDR   | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL052CDR    | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL052CPSR   | SO           | PS              | 8    | 2000 | 330.0              | 16.4               | 8.35    | 6.6     | 2.4     | 12.0    | 16.0   | Q1            |
| TL052IDR    | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL052IDRG4  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| TL054ACDR   | SOIC         | D               | 14   | 2500 | 330.0              | 16.4               | 6.5     | 9.0     | 2.1     | 8.0     | 16.0   | Q1            |
| TL054AIDR   | SOIC         | D               | 14   | 2500 | 330.0              | 16.4               | 6.5     | 9.0     | 2.1     | 8.0     | 16.0   | Q1            |
| TL054AIDRG4 | SOIC         | D               | 14   | 2500 | 330.0              | 16.4               | 6.5     | 9.0     | 2.1     | 8.0     | 16.0   | Q1            |
| TL054CDR    | SOIC         | D               | 14   | 2500 | 330.0              | 16.4               | 6.5     | 9.0     | 2.1     | 8.0     | 16.0   | Q1            |
| TL054CNSR   | SOP          | NS              | 14   | 2000 | 330.0              | 16.4               | 8.1     | 10.4    | 2.5     | 12.0    | 16.0   | Q1            |
| TL054IDR    | SOIC         | D               | 14   | 2500 | 330.0              | 16.4               | 6.5     | 9.0     | 2.1     | 8.0     | 16.0   | Q1            |

## TAPE AND REEL BOX DIMENSIONS



\*All dimensions are nominal

| Device      | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|-------------|--------------|-----------------|------|------|-------------|------------|-------------|
| TL051CDR    | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL052ACDR   | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL052AIDR   | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL052CDR    | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL052CPSR   | SO           | PS              | 8    | 2000 | 353.0       | 353.0      | 32.0        |
| TL052IDR    | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL052IDRG4  | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| TL054ACDR   | SOIC         | D               | 14   | 2500 | 340.5       | 336.1      | 32.0        |
| TL054AIDR   | SOIC         | D               | 14   | 2500 | 340.5       | 336.1      | 32.0        |
| TL054AIDRG4 | SOIC         | D               | 14   | 2500 | 353.0       | 353.0      | 32.0        |
| TL054CDR    | SOIC         | D               | 14   | 2500 | 353.0       | 353.0      | 32.0        |
| TL054CNSR   | SOP          | NS              | 14   | 2000 | 353.0       | 353.0      | 32.0        |
| TL054IDR    | SOIC         | D               | 14   | 2500 | 340.5       | 336.1      | 32.0        |

**TUBE**


\*All dimensions are nominal

| Device     | Package Name | Package Type | Pins | SPQ | L (mm) | W (mm) | T (μm) | B (mm) |
|------------|--------------|--------------|------|-----|--------|--------|--------|--------|
| TL051CP    | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL051CP.A  | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052ACP   | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052ACP.A | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052AIP   | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052AIP.A | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052CP    | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052CP.A  | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052IP    | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL052IP.A  | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| TL054ACN   | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |
| TL054ACN.A | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |
| TL054CN    | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |
| TL054CN.A  | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |
| TL054IN    | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |
| TL054IN.A  | N            | PDIP         | 14   | 25  | 506    | 13.97  | 11230  | 4.32   |