

**TAPE AND REEL INFORMATION**

**QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE**


\*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 |
|--------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003ADYYR | SOT-23-THIN  | DYY             | 16   | 3000 | 330.0              | 12.4               | 4.8     | 3.6     | 1.6     | 8.0     | 12.0   | Q3            |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2003AINSR | SO           | NS              | 16   | 2000 | 330.0              | 16.4               | 8.2     | 10.5    | 2.5     | 12.0    | 16.0   | Q1            |
| ULN2003AINSR | SO           | NS              | 16   | 2000 | 330.0              | 16.4               | 8.45    | 10.55   | 2.5     | 12.0    | 16.2   | Q1            |
| ULN2003AIPWR | TSSOP        | PW              | 16   | 2000 | 330.0              | 12.4               | 6.9     | 5.6     | 1.6     | 8.0     | 12.0   | Q1            |
| ULN2003AIPWR | TSSOP        | PW              | 16   | 2000 | 330.0              | 12.4               | 6.9     | 5.6     | 1.6     | 8.0     | 12.0   | Q1            |
| ULN2003ANSR  | SO           | NS              | 16   | 2000 | 330.0              | 16.4               | 8.45    | 10.55   | 2.5     | 12.0    | 16.2   | Q1            |
| ULN2003ANSR  | SO           | NS              | 16   | 2000 | 330.0              | 16.4               | 8.2     | 10.5    | 2.5     | 12.0    | 16.0   | Q1            |
| ULN2003APWR  | TSSOP        | PW              | 16   | 2000 | 330.0              | 12.4               | 6.9     | 5.6     | 1.6     | 8.0     | 12.0   | Q1            |

| 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 |
|-------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| ULN2003APWR | TSSOP        | PW              | 16   | 2000 | 330.0              | 12.4               | 6.9     | 5.6     | 1.6     | 8.0     | 12.0   | Q1            |
| ULN2004ADR  | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2004ADR  | SOIC         | D               | 16   | 2500 | 330.0              | 16.4               | 6.5     | 10.3    | 2.1     | 8.0     | 16.0   | Q1            |
| ULN2004ANSR | SO           | NS              | 16   | 2000 | 330.0              | 16.4               | 8.2     | 10.5    | 2.5     | 12.0    | 16.0   | Q1            |

## TAPE AND REEL BOX DIMENSIONS

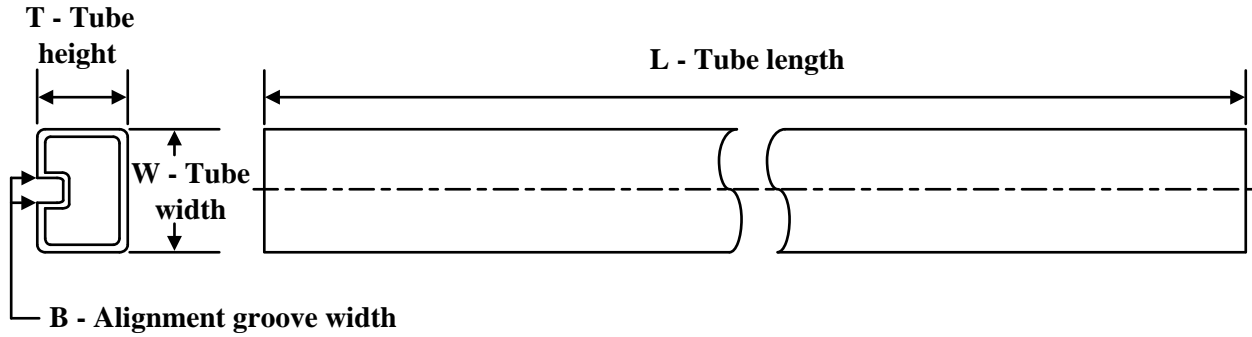


\*All dimensions are nominal

| Device       | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|--------------|--------------|-----------------|------|------|-------------|------------|-------------|
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 356.0       | 356.0      | 35.0        |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 340.5       | 336.1      | 32.0        |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 353.0       | 353.0      | 32.0        |
| ULN2003ADR   | SOIC         | D               | 16   | 2500 | 353.0       | 353.0      | 32.0        |
| ULN2003ADYYR | SOT-23-THIN  | DYY             | 16   | 3000 | 336.6       | 336.6      | 31.8        |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 340.5       | 336.1      | 32.0        |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 353.0       | 353.0      | 32.0        |
| ULN2003AIDR  | SOIC         | D               | 16   | 2500 | 353.0       | 353.0      | 32.0        |
| ULN2003AINSR | SO           | NS              | 16   | 2000 | 356.0       | 356.0      | 35.0        |
| ULN2003AINSR | SO           | NS              | 16   | 2000 | 353.0       | 353.0      | 32.0        |
| ULN2003AIPWR | TSSOP        | PW              | 16   | 2000 | 356.0       | 356.0      | 35.0        |
| ULN2003AIPWR | TSSOP        | PW              | 16   | 2000 | 353.0       | 353.0      | 32.0        |
| ULN2003ANSR  | SO           | NS              | 16   | 2000 | 353.0       | 353.0      | 32.0        |
| ULN2003ANSR  | SO           | NS              | 16   | 2000 | 356.0       | 356.0      | 35.0        |
| ULN2003APWR  | TSSOP        | PW              | 16   | 2000 | 356.0       | 356.0      | 35.0        |
| ULN2003APWR  | TSSOP        | PW              | 16   | 2000 | 353.0       | 353.0      | 32.0        |
| ULN2004ADR   | SOIC         | D               | 16   | 2500 | 340.5       | 336.1      | 32.0        |
| ULN2004ADR   | SOIC         | D               | 16   | 2500 | 353.0       | 353.0      | 32.0        |

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| Device      | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|-------------|--------------|-----------------|------|------|-------------|------------|-------------|
| ULN2004ANSR | SO           | NS              | 16   | 2000 | 356.0       | 356.0      | 35.0        |

**TUBE**


\*All dimensions are nominal

| Device      | Package Name | Package Type | Pins | SPQ | L (mm) | W (mm) | T (µm) | B (mm) |
|-------------|--------------|--------------|------|-----|--------|--------|--------|--------|
| ULN2002AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2002ANE4 | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2003AN   | N            | PDIP         | 16   | 25  | 506.1  | 9      | 600    | 5.4    |
| ULN2003AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2003AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2004AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2004AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2004ANE4 | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULN2004ANE4 | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULQ2003AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULQ2003AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |
| ULQ2004AD   | D            | SOIC         | 16   | 40  | 507    | 8      | 3940   | 4.32   |
| ULQ2004ADG4 | D            | SOIC         | 16   | 40  | 507    | 8      | 3940   | 4.32   |
| ULQ2004AN   | N            | PDIP         | 16   | 25  | 506    | 13.97  | 11230  | 4.32   |