

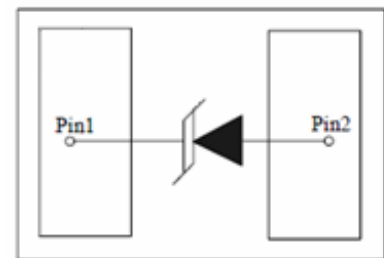


FEATURES

- Protects one I/O or power line
- Low clamping voltage
- Working voltage: 9.0V
- Low leakage current
- RoHS compliant



DFN1610-2L



PIN Configuration

MAIN APPLICATIONS

- Cellular phones
- Personal digital assistants (PDA's)
- Laptop computers
- Digital cameras

PROTECTION SOLUTION TO MEET

- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 90A (8/20µs)

MECHANICAL CHARACTERISTICS

- DFN1610-2L package
- Molding compound flammability rating: UL 94V-0
- Quantity per reel: 3,000pcs
- Lead finish: lead free
- Marking code: 09P

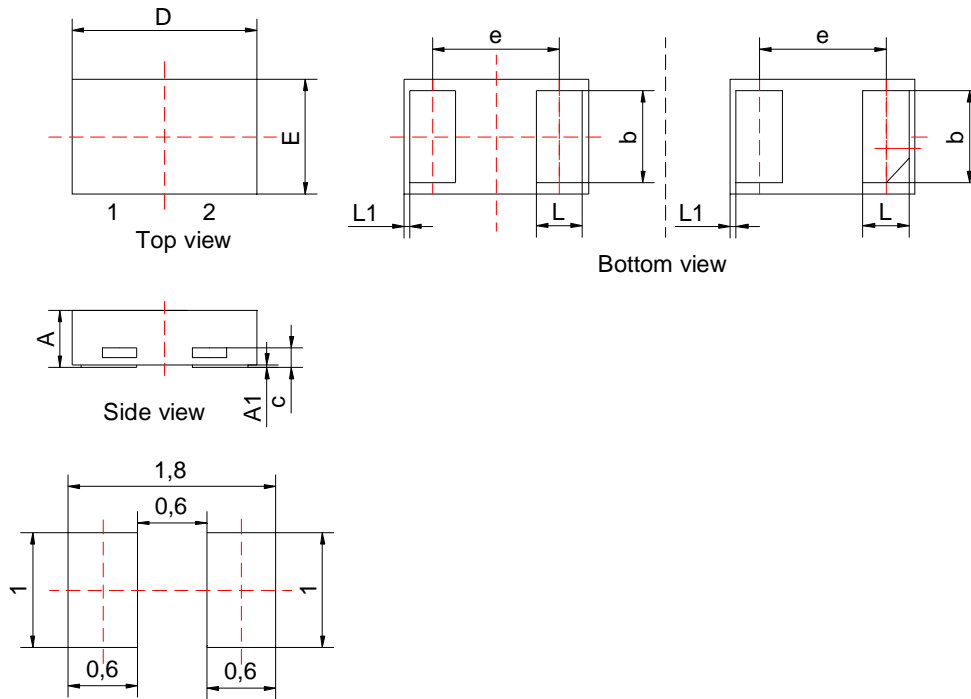
ABSOLUTE MAXIMUM RATINGS (T_A=25 °C, RH=45%-75%, unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|------------------|---------------|------|
| Peak pulse power dissipation on 8/20µs waveform | P _{PP} | 2000 | W |
| ESD per IEC 61000-4-2 (Air) | V _{ESD} | +/- 30 | kV |
| ESD per IEC 61000-4-2 (Contact) | | +/- 30 | |
| Lead soldering temperature | T _L | 260 (10 sec.) | |
| Operating junction temperature range | T _J | -55 to +125 | |
| Storage temperature range | T _{STG} | -55 to +150 | |

ELECTRICAL CHARACTERISTICS (T_A=25)

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-----------|--------|------------|-----|-----|-----|------|
|-----------|--------|------------|-----|-----|-----|------|

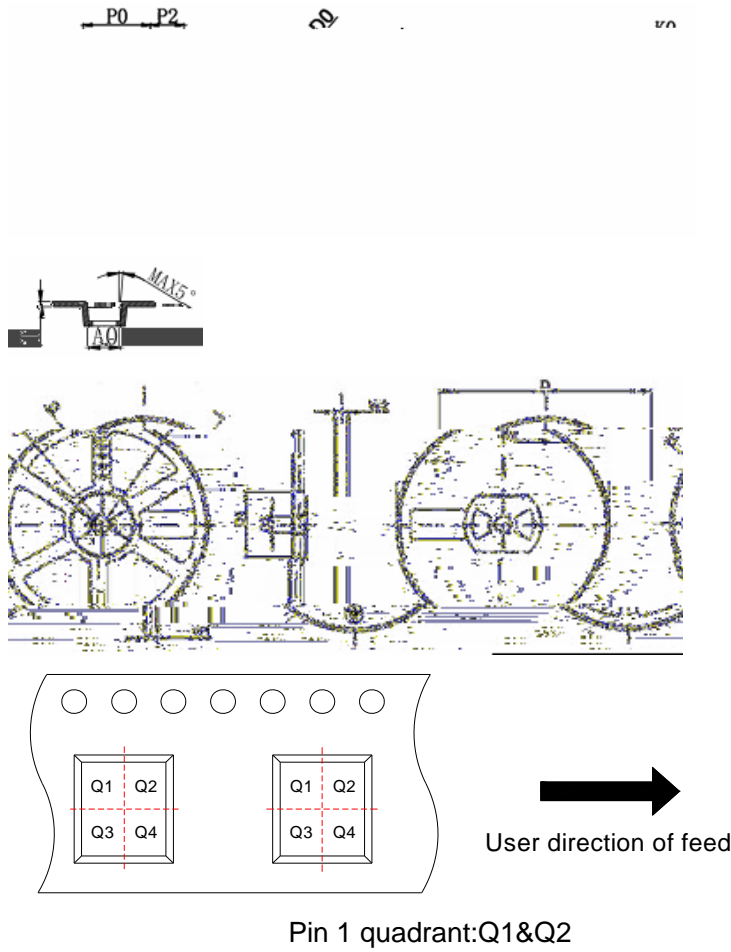
PACKAGE MECHANICAL DATA



Recommended Soldering Footprint

| Symbol | Millimeter | | | Inches | | |
|--------|------------|------|------|----------|-------|-------|
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 0.45 | 0.50 | 0.55 | 0.018 | 0.020 | 0.022 |
| A1 | 0.00 | 0.02 | 0.05 | 0.000 | 0.001 | 0.002 |
| b | 0.75 | 0.85 | 0.95 | 0.030 | 0.033 | 0.037 |
| c | 0.08 | 0.12 | 0.18 | 0.003 | 0.005 | 0.007 |
| D | 1.55 | 1.60 | 1.65 | 0.061 | 0.063 | 0.065 |
| e | 1.10BSC | | | 0.043BSC | | |
| E | 0.95 | 1.00 | 1.05 | 0.037 | 0.039 | 0.041 |
| L | 0.35 | 0.40 | 0.45 | 0.014 | 0.016 | 0.018 |
| L1 | 0.06BSC | | | 0.002BSC | | |

TAPE AND REEL INFORMATION DFN1610 2L



| Symbol | Millimeters | Inches |
|--------|-------------|--------|
| | Typ. | Typ. |
| A0 | 1.15 | 0.045 |
| B0 | 1.75 | 0.069 |
| K0 | 0.67 | 0.026 |
| D0 | 1.55 | 0.061 |
| P0 | 4.00 | 0.157 |
| P1 | 4.00 | 0.157 |
| P2 | 2.00 | 0.079 |
| E | 1.75 | 0.069 |
| F | 3.50 | 0.138 |
| W | 8.00 | 0.315 |
| D | 178 | 7.008 |
| D1 | 54.40 | 2.142 |
| D2 | 13.00 | 0.512 |
| G | R78.00 | R3.071 |

ORDERING INFORMATION

| OUTLINE | Package | Reel Size | Quantity Per Reel |
|---------|------------|-----------|-------------------|
| TAPING | DFN1610-2L | 7 Inch | 3,000 pcs |

MARKING CODE

| Part Number | Marking Code |
|-------------|--------------|
|-------------|--------------|

JE 09DP

