<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC spark-over voltage</td>
<td>230 ± 20 V</td>
</tr>
<tr>
<td>Impulse spark-over voltage</td>
<td></td>
</tr>
<tr>
<td>at 100 V/µs</td>
<td>&lt; 450 V</td>
</tr>
<tr>
<td>at 1 kV/µs</td>
<td>&lt; 650 V</td>
</tr>
<tr>
<td>Nominal impulse discharge current (wave 8/20 µs)</td>
<td>10 kA</td>
</tr>
<tr>
<td>Single impulse discharge current (wave 8/20 µs)</td>
<td>15 kA</td>
</tr>
<tr>
<td>Nominal alternating discharge current (50 Hz, 1 s)</td>
<td>10 A</td>
</tr>
<tr>
<td>Alternating discharge current (50 Hz, 9 cycles)</td>
<td>40 A</td>
</tr>
<tr>
<td>Insulation resistance at 100 V&lt;sub&gt;dc&lt;/sub&gt;</td>
<td>&gt; 10 GΩ</td>
</tr>
<tr>
<td>Capacitance at 1 MHz</td>
<td>&lt; 1.5 pF</td>
</tr>
<tr>
<td>Transverse delay time</td>
<td>&lt; 0.2 µs</td>
</tr>
<tr>
<td>Arc voltage at 1 A</td>
<td>~ 35 V</td>
</tr>
<tr>
<td>Glow to arc transition current</td>
<td>~ 1.0 A</td>
</tr>
<tr>
<td>Glow voltage</td>
<td>~ 200 V</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 2 g</td>
</tr>
<tr>
<td>Operation and storage temperature</td>
<td>-40 °C to +90 °C</td>
</tr>
<tr>
<td>Climatic category (IEC 60068-1)</td>
<td>40/ 90/ 21</td>
</tr>
<tr>
<td>Marking, red</td>
<td>EPCOS 230 YY O</td>
</tr>
</tbody>
</table>

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test according to ITU-T Rec. K.12
4) Tip or ring electrode to center electrode
5) Total current through center electrode, half value through tip respectively ring electrode.

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845
Surge Arrester T83-A230X
3-Electrode-Arrester Ordering code: B88069X8910B502

Not to scale

Dimensions in mm

Non controlled document

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Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers’ Association), unless otherwise agreed.
Complete, Isolated RS-485/RS-422 Data Interface

The MAX1480A/MAX1480B/MAX1480C/MAX1490A/MAX1490B typically withstand 1600V RMS (1 minute) or 2000V RMS (1 second). The logic inputs can be driven from TTL/CMOS-logic with a series resistor, and the received data output can directly drive TTL or CMOS-logic families with only resistive pullup.

Low-Power Shutdown Mode

The SD pin shuts down the oscillator on the internal power driver. With the primary side in shutdown, no power is transferred across the isolation barrier. The DI and DE optocouplers, however, still consume current if the drive signals on the nonisolated side are low. Therefore, leave DI\(^{\prime}\) and DE\(^{\prime}\) high or floating when in shutdown mode.

Table 1. Pull-Up and LED Drive Resistors

<table>
<thead>
<tr>
<th>PART</th>
<th>R1 (Ω)</th>
<th>R2 (Ω)</th>
<th>R3 (Ω)</th>
<th>R4 (Ω)</th>
<th>R5 (Ω)</th>
<th>R6 (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX1480A</td>
<td>200</td>
<td>200</td>
<td>1000</td>
<td>4300</td>
<td>1000</td>
<td>200</td>
</tr>
<tr>
<td>MAX1480B</td>
<td>200</td>
<td>510</td>
<td>3000</td>
<td>2200</td>
<td>3000</td>
<td>200</td>
</tr>
<tr>
<td>MAX1480C</td>
<td>200</td>
<td>200</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>200</td>
</tr>
</tbody>
</table>

Figure 1. MAX1480A/MAX1480B/MAX1480C Detailed Block Diagram and Typical Application Circuit
+5V, RS-232 Transceivers with 0.1µF External Capacitors

MAX202 Pin Configuration/Typical Operating Circuit
PCB Relay

G6H

Ultracompact, Ultrasensitive DPDT Relay

- Compact size and low 5-mm profile.
- Low power consumption (140 mW for single-side stable, 100 to 300 mW for latching type) and high sensitivity.
- Low thermoelectromotive force.
- Low magnetic interference enables high-density mounting.
- Single- and double-winding latching types also available.

Ordering Information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Single-side stable</th>
<th>Single-winding latching</th>
<th>Double-winding latching</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPDT</td>
<td>Plastic sealed</td>
<td>PCB terminal</td>
<td>G6H-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>G6HU-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>G6HK-2</td>
</tr>
<tr>
<td></td>
<td>Surface mount terminal</td>
<td>G6H-2F</td>
<td>---</td>
</tr>
</tbody>
</table>

Note: When ordering, add the rated coil voltage to the model number.
Example: G6HK-2 12 VDC

Model Number Legend:

G6H □□□□□ VDC

1. Relay Function
   - None: Single-side stable
   - U: Single-winding latching
   - K: Double-winding latching

2. Contact Form
   - DPDT

3. Terminal Shape
   - None: PCB terminal
   - F: Surface mount terminal

4. Classification
   - U: Ultrasonically cleanable

5. Rated Coil Voltage
   - 3, 5, 6, 9, 12, 24 VDC
Specifications

- **Coil Ratings**
  - **Single-side Stable Type (G6H-2, G6H-2F)**
    - **Rated voltage**
      - 3 VDC
      - 5 VDC
      - 6 VDC
      - 9 VDC
      - 12 VDC
      - 24 VDC
    - **Rated current**
      - 46.7 mA
      - 28.1 mA
      - 23.3 mA
      - 15.5 mA
      - 11.7 mA
      - 8.3 mA
    - **Coil resistance**
      - 64.3 Ω
      - 178 Ω
      - 257 Ω
      - 579 Ω
      - 1,028 Ω
      - 2,880 Ω
    - **Coil inductance** (H) (ref. value)
      - Armature OFF: 0.025
      - Armature ON: 0.022
    - **Must operate voltage**: 75% max. of rated voltage
    - **Must release voltage**: 10% min. of rated voltage
    - **Max. voltage**
      - 200% of rated voltage at 23°C, 150% at 70°C
      - 170% of rated voltage at 23°C, 130% at 70°C
    - **Power consumption**
      - Approx. 140 mW
      - Approx. 200 mW
    - **Note**: 48 VDC (single-side stable) model is also available. Consult OMRON for details.

  - **Single-winding Latching Type (G6HU-2)**
    - **Rated voltage**
      - 3 VDC
      - 5 VDC
      - 6 VDC
      - 9 VDC
      - 12 VDC
      - 24 VDC
    - **Rated current**
      - 33.3 mA
      - 20 mA
      - 16.7 mA
      - 11.1 mA
      - 8.3 mA
      - 6.25 mA
    - **Coil resistance**
      - 90 Ω
      - 250 Ω
      - 360 Ω
      - 810 Ω
      - 1,440 Ω
      - 3,840 Ω
    - **Coil inductance** (H) (ref. value)
      - Armature OFF: 0.034
      - Armature ON: 0.029
    - **Must operate voltage**: 75% max. of rated voltage
    - **Must release voltage**: 75% min. of rated voltage
    - **Max. voltage**
      - 180% of rated voltage at 23°C, 140% at 70°C
    - **Power consumption**
      - Approx. 100 mW
      - Approx. 150 mW

  - **Double-winding Latching Type (G6HK-2)**
    - **Rated voltage**
      - 3 VDC
      - 5 VDC
      - 6 VDC
      - 9 VDC
      - 12 VDC
      - 24 VDC
    - **Rated current**
      - 66.7 mA
      - 40 mA
      - 33.3 mA
      - 22.2 mA
      - 16.7 mA
      - 12.5 mA
    - **Coil resistance**
      - 45 Ω
      - 125 Ω
      - 180 Ω
      - 405 Ω
      - 720 Ω
      - 1,920 Ω
    - **Coil inductance** (H) (ref. value)
      - Armature OFF: 0.014
      - Armature ON: 0.0075
    - **Must operate voltage**: 75% max. of rated voltage
    - **Must release voltage**: 75% min. of rated voltage
    - **Max. voltage**
      - 160% of rated voltage at 23°C, 130% at 70°C
      - 130% of rated voltage at 23°C, 110% at 70°C
    - **Power consumption**
      - Approx. 200 mW
      - Approx. 300 mW
    - **Note**: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
    - 2. Operating characteristics are measured at a coil temperature of 23°C.

- **Contact Ratings**
  - **Load**
    - Resistive load (cosφ = 1)
  - **Rated load**
    - 0.5 A at 125 VAC; 1 A at 30 VDC
  - **Contact material**
    - Ag (Au-clad)
  - **Rated carry current**
    - 1 A
  - **Max. switching voltage**
    - 125 VAC, 110 VDC
  - **Max. switching current**
    - 1 A
  - **Max. switching capacity**
    - 62.5 VA, 33 W
  - **Min. permissible load**
    - 10 µA at 10 mVDC
  - **Note**: P level: λ60 = 0.1 x 10⁻⁶/operation
Dimensions

Note:
1. All units are in millimeters unless otherwise indicated.
2. Orientation marks are indicated as follows:

Single-side Stable Type
G6H-2(-U)

Single-winding Latching Type
G6HU-2(-U)

Double-winding Latching Type
G6HK-2(-U)

Single-side Stable Type
G6H-2F

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. K42-E1-5
SMT COMMON MODE CHOKES
1.22A to 14.0A

- Solutions based on impedance, size and current
- Designed for DC/DC converters
- Wide variety of inductor sizes and current ratings available
- Dielectric strength: 1000V_{RMS}

---

Electrical Specifications @ 25°C — Operating Temperature -40°C to +120°C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance (mH ±35%)</th>
<th>Rate (A)</th>
<th>DCR (MAX) (mΩ)</th>
<th>Curve (see # below)</th>
<th>Package</th>
<th>Weight (Grams)</th>
<th>Quantity In Tube</th>
<th>Quantity In Reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0502NL</td>
<td>0.47</td>
<td>14.0</td>
<td>8</td>
<td>9</td>
<td>Big Foot</td>
<td>14.8</td>
<td>15</td>
<td>75</td>
</tr>
<tr>
<td>P0469NL</td>
<td>0.63</td>
<td>11.6</td>
<td>10</td>
<td>7</td>
<td>Big Foot</td>
<td>14.3</td>
<td>20</td>
<td>75</td>
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<tr>
<td>P0429NL</td>
<td>0.81</td>
<td>9.70</td>
<td>14</td>
<td>6</td>
<td>Big Foot</td>
<td>13.5</td>
<td>20</td>
<td>75</td>
</tr>
<tr>
<td>P0527NL</td>
<td>0.53</td>
<td>7.20</td>
<td>15</td>
<td>8</td>
<td>HCCI-58</td>
<td>7.7</td>
<td>15</td>
<td>100</td>
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<tr>
<td>P0353NL</td>
<td>0.59</td>
<td>5.60</td>
<td>21</td>
<td>7</td>
<td>LCCI-50</td>
<td>5.2</td>
<td>30</td>
<td>200</td>
</tr>
<tr>
<td>P0422NL</td>
<td>0.77</td>
<td>4.70</td>
<td>40</td>
<td>6</td>
<td>LCCI-50</td>
<td>4.9</td>
<td>30</td>
<td>200</td>
</tr>
<tr>
<td>P0421NL</td>
<td>0.22</td>
<td>3.30</td>
<td>60</td>
<td>5</td>
<td>LCCI-50</td>
<td>4.7</td>
<td>30</td>
<td>200</td>
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<tr>
<td>P0420NL</td>
<td>1.32</td>
<td>3.30</td>
<td>60</td>
<td>4</td>
<td>LCCI-50</td>
<td>4.6</td>
<td>30</td>
<td>200</td>
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<tr>
<td>P0351NL</td>
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<td>2.80</td>
<td>80</td>
<td>3</td>
<td>LCCI-50</td>
<td>4.3</td>
<td>30</td>
<td>200</td>
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<td>P0473NL</td>
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<td>1.63</td>
<td>110</td>
<td>2</td>
<td>Polecat</td>
<td>1.5</td>
<td>40</td>
<td>500</td>
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<tr>
<td>P0354NL</td>
<td>1.17</td>
<td>1.22</td>
<td>200</td>
<td>1</td>
<td>Polecat</td>
<td>1.4</td>
<td>40</td>
<td>500</td>
</tr>
</tbody>
</table>

---

NOTE:
1. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P0502 becomes P0502T). Pulse complies to industry standard tape and reel specification EIA481.
2. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
3. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

---

Impedance Curves
SMT COMMON MODE CHOKES
1.22A to 14.0A

Mechanicals

**Polecat**

**LCCI-50**

Suggested Pad Layout

**HCCI-68**

**Big Foot**

Suggested Pad Layout

Schematic

Dimensions: Inches \[ \text{mm} \]

Unless otherwise specified, all tolerances are ± 0.005/0.13
**T1/CEPT/ISDN-PRI TRANSFORMERS**

Dual SMT package contains both transmit and receive transformers

UL recognized (some parts pending approval)

RoHS compliant versions available upon request

---

### Electrical Specifications @ 25°C

<table>
<thead>
<tr>
<th>Part #</th>
<th>Part # (STD temp.)</th>
<th>Part # (EXT temp.)</th>
<th>Turns Ratio a (Pri:Sec ±5%)</th>
<th>OCL (mH MIN)</th>
<th>Cw (pF MAX)</th>
<th>L1 (µH MAX)</th>
<th>DCR Pri (Ω MAX)</th>
<th>Package/ Schematic</th>
<th>Primary Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-65861</td>
<td>T1090</td>
<td>1CT:2CT &amp; 1CT:2CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>16-14, 6-8</td>
<td></td>
</tr>
<tr>
<td>PE-65862</td>
<td>T1091</td>
<td>1CT:2CT &amp; 1:1.36CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/2</td>
<td>16-14, 6-8</td>
<td></td>
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<tr>
<td>PE-65865</td>
<td>T1076</td>
<td>1:1.15CT &amp; 1CT:2CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/3</td>
<td>16-14, 6-8</td>
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<tr>
<td>PE-65866</td>
<td>T1092 †</td>
<td>1:1/1.26 &amp; 1CT:2CT</td>
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<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/4</td>
<td>16-14, 6-8</td>
<td></td>
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<tr>
<td>PE-65870</td>
<td>T1093</td>
<td>1CT:1.15CT &amp; 1CT:1.15CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>1-3, 6-8</td>
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<tr>
<td>T1022</td>
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<td>1CT:1CT &amp; 1CT:1.5CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>16-14, 6-8</td>
<td></td>
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<tr>
<td>PE-68678</td>
<td>T1094</td>
<td>1CT:1CT &amp; 1CT:2CT</td>
<td>1.20 &amp; 1.20</td>
<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>16-14, 6-8</td>
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<tr>
<td>PE-68765</td>
<td>T1095</td>
<td>1CT:1.14CT &amp; 1CT:1.41CT</td>
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<td>30 &amp; 30</td>
<td>.80 &amp; .80</td>
<td>0.85 &amp; 0.85</td>
<td>BH/5</td>
<td>1-3, 11-9</td>
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<tr>
<td>T1023</td>
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<td>1CT:1CT &amp; 1CT:1.41CT</td>
<td>1.00 &amp; 1.00</td>
<td>30 &amp; 30</td>
<td>.80 &amp; .80</td>
<td>0.85 &amp; 0.85</td>
<td>BH/5</td>
<td>1-3, 11-9</td>
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<tr>
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<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>6-8, 14-16</td>
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<td>T1121</td>
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<td>1CT:1CT &amp; 1CT:1.5CT</td>
<td>1.50 &amp; 1.50</td>
<td>40 &amp; 40</td>
<td>.80 &amp; .80</td>
<td>0.80 &amp; 0.80</td>
<td>BH/1</td>
<td>6-8, 14-16</td>
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<tr>
<td>T1122</td>
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<td>1.20 &amp; 1.20</td>
<td>40 &amp; 40</td>
<td>.80 &amp; .80</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
<td>1-3, 6-8</td>
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<td>T1021 †</td>
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<td>40 &amp; 40</td>
<td>.50 &amp; .50</td>
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<td>BH/4</td>
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<td>T1075 †</td>
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<td>40 &amp; 40</td>
<td>.50 &amp; .50</td>
<td>0.70 &amp; 0.70</td>
<td>BH/4</td>
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<td>.60 &amp; .60</td>
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<td>TX1287</td>
<td>1CT:2.42CT &amp; 1CT:2.42CT</td>
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<td>25 &amp; 25</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/5</td>
<td>1-3, 6-8</td>
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<tr>
<td>T1286</td>
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<td>1CT:2CT &amp; 1CT:2.4CT</td>
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<td>15 &amp; 15</td>
<td>.30 &amp; .30</td>
<td>0.30 &amp; 0.30</td>
<td>BH/1</td>
<td>1-3, 6-8</td>
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<tr>
<td>TX1317</td>
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<td>1CT:2CT &amp; 1:2CS</td>
<td>1.20 &amp; 1.20</td>
<td>35 &amp; 35</td>
<td>.50 &amp; .50</td>
<td>1.00 &amp; 1.00</td>
<td>BH/6</td>
<td>1-3, 11-9</td>
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<tr>
<td>TX1189</td>
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<td>1:1.36CT &amp; 1:2CT</td>
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<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>1.00 &amp; 1.00</td>
<td>BH/7</td>
<td>16-14, 6-8</td>
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<td>1CT:2CT &amp; 1CT:2CT</td>
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<td>30 &amp; 30</td>
<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
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<td>35 &amp; 35</td>
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<td>0.70 &amp; 0.70</td>
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<td>.60 &amp; .60</td>
<td>0.70 &amp; 0.70</td>
<td>BH/1</td>
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<td>TX1099</td>
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<td>.80 &amp; .80</td>
<td>1.00 &amp; 1.00</td>
<td>BH/4</td>
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<td>30 &amp; 30</td>
<td>.80 &amp; .80</td>
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<td>BH/9</td>
<td>2-4, 6-7</td>
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<td>30 &amp; 30</td>
<td>.80 &amp; .80</td>
<td>1.00 &amp; 1.00</td>
<td>BH/4</td>
<td>16-14, 11-9</td>
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</table>

**NOTE:** Standard (STD) operating temperature range is 0°C to 70°C. Extended (EXT) operating temperature range is -40°C to +85°C. RoHS compliant parts can be ordered by adding an ‘NL’ suffix to the part number (i.e. PE-65861 becomes PE-65861NL).

### Mechanical

#### Dimensions: Inches

- Weight: 1.0 grams
- Tape & Reel: 1600/reel
- Tube: 7000/tube

### Schematics

See Pages 7 and 8 for Table Notes

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**USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 755 33966778 • Taiwan 886 3 4643715**

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UM2700 SERIES
10W to 15 Watt DC-DC Converters

- 2:1 Input Range
- Efficiency to 83%
- Pi Input Filter
- Continuous Short Circuit Protection
- Conductive EMI Meet CISPR22 Class A

SPECIFICATIONS
All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

INPUT SPECIFICATIONS
Input Voltage Range, 12V ....................................... 9-18V
24V ............................................. 18-36V
48V .......................................... 36-72V
Input Filter .................................................. Pi Network

OUTPUT SPECIFICATIONS
Voltage Accuracy, Single Output ...................... ±1% max.
Dual, +Output ...................................... ±1% max.
-Output .............................................. ±1% max.
Triple, +5V ........................................... ±1% max.
Auxiliaries ............................................. ±3% max.
Voltage Balance, Dual Output at Full Load, 
.......................................................... ±1.0% max.
Transient Response
Single, 25% Step Load Change ................. <500μ sec.
Dual, FL-1/2 FL, ±1% Error Band ............... <500μ sec.
Ripple and Noise, 20MHz BW 1 .................................. 75mV P-P max.
Triple Output Auxiliaries ... 125mV P-P max.
Temperature Coefficient ................................ ±0.02%/°C max.
Short Circuit Protection .................................... Continuous
Line Regulation 2, Single/Dual Output ............. ±0.2% max.
Triple Output +5V ...................................... ±1% max.
Auxiliaries ............................................ ±3% max.
Load Regulation 3, Single Output .............. ±0.2% max.
Dual Output ±5V ..................................... ±2.0% max.
Output ±12V/15V .................................. ±1.0% max.
Triple Output +5V .................................. ±2.0% max.
Auxiliaries ............................................ ±5.0% max.

GENERAL SPECIFICATIONS
Efficiency ...................................................... See Table
Isolation Voltage ...................................... 1500 VDC min.
Isolation Resistance .................................... 108 Ohms min.
Switching Frequency
- Single/Dual .......................................... 400KHz
- Triple ............................................. 250KHz
Operating Temperature Range 4 ........... -25°C to +100°C
Storage Temperature Range ............... -55°C to +105°C
EMI/RFI 5 .................................. Six-Sided Continuous Shield
Dimensions .............................................. 2 x 1 x 0.4 inches
(50.8 x 25.4 x 10.2mm)
Case Material 6 .................................. Black-Coated Copper with Non-Conductive Base
Weight .......................................................... 30g

NOTES:
1. Triple Output: Measured with 1uF ceramic cap. cross to each output.
2. Measured from high line to low line.
3. Single: from full load to 1/4 load.
   Dual: from full load to 1/2 load.
   Triple: +5V from full load to 1/4 load, Auxiliaries Output balanced load from full load to 1/4 load.
4. Output Power

\[
\begin{array}{c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c}
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<th>OUTPUT VOLTAGE</th>
<th>OUTPUT CURRENT</th>
<th>INPUT CURRENT</th>
<th>% EFF</th>
<th>CASE</th>
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<td>5 VDC</td>
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<td>50 mA</td>
<td>20 mA</td>
<td>3000 mA</td>
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<td>UM2702</td>
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<td>UM2703</td>
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<td>20 mA</td>
<td>3000 mA</td>
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NOTE: Maximum capacitive load across the each output ports should not be over following indicated values.

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<th>MODEL NUMBER</th>
<th>UM27X1</th>
<th>UM27X2</th>
<th>UM27X3</th>
<th>UM27X4</th>
<th>UM27X5</th>
<th>UM27X6</th>
<th>UM27X7</th>
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<td>MAXIMUM CAPACITIVE LOAD</td>
<td>+2200uF</td>
<td>+470uF</td>
<td>+680uF</td>
<td>+330uF</td>
<td>+470uF</td>
<td>+330uF</td>
<td>+270uF</td>
<td>+330uF</td>
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CASE B

PIN CONNECTIONS

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<td>1</td>
<td>+Input</td>
<td>+Input</td>
</tr>
<tr>
<td>2</td>
<td>-Input</td>
<td>-Input</td>
</tr>
<tr>
<td>3</td>
<td>+Output</td>
<td>No pin</td>
</tr>
<tr>
<td>4</td>
<td>Common/ NP*</td>
<td>+Aux. out</td>
</tr>
<tr>
<td>5</td>
<td>-Output</td>
<td>-Aux. out</td>
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<tr>
<td>6</td>
<td>-Common</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>-</td>
<td>+5V out</td>
</tr>
</tbody>
</table>

*NP(NO PIN) ON SINGLE OUTPUT
All dimensions in inches (mm).
Tolerance .xx=±0.04
.xxx=±0.010

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