**Description**
Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin and enclosed in a two-piece zinc-plated metal shell.

**Properties**
- Magnet wire: U.S. class N 200 °C (392 °F) minimum rating
- Mating connector: DT06-2S-P012 - Note: DEUTSCH DT04-2P
  DELPHI/PACKARD number 12052641 - Note: METRI-PACK 150-2M
- Coil metal frame: Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

**Electrical Parameters**
- Coil resistance at 20 °C (68 °F):
  - 5.4 ohm & 177.8% - Note: 12 V coil
  - 21.7 ohm & 177.5% - Note: 24 V coil
- Coil initial current draw:
  - 1.2 A - Note: 12 V coil
  - 0.6 A - Note: 24 V coil
- coil-initial-power-consumption: 7.8 W

**Bidirectional Zeener Diode Parameters**
- Maximum clamping voltage:
  - 45.7 V - Note: 12 Vdc coil
  - 64.8 V - Note: 24 Vdc coil
- Maximum peak pulse current:
  - 13.2 A - Note: 12 Vdc coil
  - 9.3 A - Note: 24 Vdc coil
- Reverse standoff voltage:
  - 28.2 V - Note: 12 Vdc coil
  - 40.2 V - Note: 24 Vdc coil
- Maximum reverse leakage:
  - 5.0 & 181 A - Note: 12, 24 Vdc coil
- Breakdown voltage:
  - 31.4 to 34.7 V - Note: 12 Vdc coil
  - 44.7 to 49.4 V - Note: 24 Vdc coil
Diode part number

**6110163 - Note:** 12 Vdc coil (ref)

**4000063 - Note:** 24 Vdc coil (ref)

## Dimensions

### ES
**IP65 Rated 12-Size Coil**
**Dual Spades**
**SAE J858a**

### EW
**IP65 Rated 12-Size Coil**
**Dual 18 Gauge Leads with Weather-Pack® Connector**

### EL
**IP65 Rated 12-Size Coil**
**Dual Leads – 18 Gauge**

### EY
**IP69K Rated 08-Size Coil**
**Thermal Shock Dunk Test Rated Coil**

### ER
**IP69K Rated 08-Size Coil**
**Thermal Shock Dunk Test Rated Coil**
<table>
<thead>
<tr>
<th>Model code</th>
<th>Part no.</th>
<th>Voltage</th>
<th>Connector</th>
<th>IP rating</th>
<th>Diode</th>
</tr>
</thead>
<tbody>
<tr>
<td>12EY</td>
<td>4304812</td>
<td>12</td>
<td>Metri-Pack 150 2M</td>
<td>IP69K</td>
<td></td>
</tr>
<tr>
<td>12ER</td>
<td>4304712</td>
<td>12</td>
<td>Deutsch DT04-2P</td>
<td>IP69K</td>
<td></td>
</tr>
<tr>
<td>24ER</td>
<td>4304724</td>
<td>24</td>
<td>Deutsch DT04-2P</td>
<td>IP69K</td>
<td></td>
</tr>
</tbody>
</table>