Ultra-Miniature PULSE Transformers

H Series Thru Hole, J Series Insulated leads
M Series Thru Hole, E Series Insulated leads

Specifications

- **MIL-PRF-21038**: All units manufactured to MIL-PRF-21038.
- **DIELECTRIC STRENGTH**: All units tested at 200 V RMS.
- **INSULATION RESISTANCE**: Greater than 10,000 Megohms at 300 V DC.
- **WEIGHT**: 1.6 Grams.
- **OPERATING TEMPERATURE**: -55° C to +130° C.
- **THERMAL SHOCK**: 25 Cycles, Method 107, MIL-STD-202, Test Condition -55° C to +130° C.

**Turns Ratio 4:4:1**

<table>
<thead>
<tr>
<th>Pico Part Number</th>
<th>Coupling Circuit Characteristics</th>
<th>Blocking Oscillator Circuit</th>
<th>Pico Prices 1-9 * (US $)</th>
</tr>
</thead>
</table>

Larger size drawing of E/M Series
Larger size drawing of J/H Series
### Coupling Circuit Characteristics

<table>
<thead>
<tr>
<th>Pico Part Number</th>
<th>E Series Insulated Leads</th>
<th>M Series Thru Hole</th>
<th>P Width µSEC.</th>
<th>Volt Out</th>
<th>Rise Time µSEC.</th>
<th>% Over Shoot</th>
<th>D. C. Resistance</th>
<th>Freq Resp. Within 3db</th>
<th>Imp in/out</th>
<th>4 Tns brn</th>
<th>4 Tns or yel</th>
<th>4 Turn grn blu</th>
<th>E Series</th>
<th>M Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-5181</td>
<td>M-5356</td>
<td>0.05</td>
<td>10</td>
<td>0.018</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>50</td>
<td>150KHz-30MHz</td>
<td>0.21</td>
<td>0.23</td>
<td>0.25</td>
</tr>
<tr>
<td>E-5182</td>
<td>M-5357</td>
<td>0.1</td>
<td>10</td>
<td>0.02</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>100KHz-17MHz</td>
<td>0.47</td>
<td>0.56</td>
<td>0.67</td>
</tr>
<tr>
<td>E-5183</td>
<td>M-5358</td>
<td>0.2</td>
<td>8</td>
<td>0.035</td>
<td>5</td>
<td>100</td>
<td>100</td>
<td>16KHz-10MHz</td>
<td>10</td>
<td>100</td>
<td>7KHz-3.3MHz</td>
<td>1.0</td>
<td>1.25</td>
<td>1.56</td>
</tr>
<tr>
<td>E-5184</td>
<td>M-5359</td>
<td>0.5</td>
<td>8</td>
<td>0.06</td>
<td>5</td>
<td>100</td>
<td>100</td>
<td>7KHz-2.3MHz</td>
<td>1.5</td>
<td>1.80</td>
<td>2.2</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
<tr>
<td>E-5185</td>
<td>M-5360</td>
<td>1</td>
<td>8</td>
<td>0.15</td>
<td>5</td>
<td>100</td>
<td>100</td>
<td>2.2KHz-1.3MHz</td>
<td>2.5</td>
<td>3.1</td>
<td>3.9</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
<tr>
<td>E-5186</td>
<td>M-5361</td>
<td>2</td>
<td>8</td>
<td>0.17</td>
<td>10</td>
<td>100</td>
<td>100</td>
<td>2.2KHz-1.3MHz</td>
<td>3.0</td>
<td>3.7</td>
<td>4.6</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
<tr>
<td>E-5187</td>
<td>M-5362</td>
<td>3</td>
<td>8</td>
<td>0.20</td>
<td>10</td>
<td>100</td>
<td>100</td>
<td>1.7KHz-1.5MHz</td>
<td>4.9</td>
<td>6.0</td>
<td>7.4</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
<tr>
<td>E-5188</td>
<td>M-5363</td>
<td>5</td>
<td>8</td>
<td>0.20</td>
<td>15</td>
<td>25</td>
<td>200</td>
<td>1.8KHz-1.5MHz</td>
<td>8.0</td>
<td>9.7</td>
<td>11.8</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
<tr>
<td>E-5189</td>
<td>M-5364</td>
<td>10</td>
<td>8</td>
<td>0.4</td>
<td>15</td>
<td>20</td>
<td>200</td>
<td>1.5KHz-1.2MHz</td>
<td>13.0</td>
<td>15.8</td>
<td>19.2</td>
<td>44.85</td>
<td>44.85</td>
<td>44.94</td>
</tr>
</tbody>
</table>

*Discount Prices:
  * 1-9 Net;
  * 10-24 less 10%;
  * 25-49 less 16%;
  * 50-99 less 23%;
  * 100-499 less 30%

Ordering Instructions:
  * No minimum.
Net 30 days F.O.B. Pelham, NY

*Delivery - stock to one week for sample orders.*
FEATURES

• Extreme resistance to thermal shock
• Ultra miniature size
• Built to Mil-PRF-21038
• Magnetic Shields available
• Electrostatic shielding can be added
• Variation of standard designs available
• Special production techniques ensure uniform size and leads which are free of encapsulant. No meniscus in lead area.
• Every unit can be made with a 300 thermal cycle guarantee using PICO's special SR construction. Contact factory for details.

For immediate engineering assistance or to place an order: **Call Toll Free: 800-431-1064**

**PICO Electronics, Inc.**
143 Sparks Ave. Pelham, NY 10803-1810
Tel: 914-738-1400 or Fax: 914-738-8225

Go back to Thru Hole Transformers and Inductors menu