# Challenge Electronics

**CT05E-05S400-2**  
Former P/N: CEET050M020-12-204-40MR  
Electromagnetic Sound Transducers

## Operating Characteristics

### Electrical
- **Rated Voltage**: 3 V o-p  
- **Operating Voltage**: 2 to 5 V o-p  
- **Coil Resistance**: 12 ± 2 Ω  
- **Max Current at V Rated**: 100 mA

### Acoustic
- **Min SPL at V Rated**: 80 dB  
- **Test Conditions**: 10 cm  
- **f₀**: 4000 ± 100 Hz

## Physical Characteristics

### Material
- **Housing**: LCP  
- **Diaphragm**: Ni Alloy  
- **Solder Pad**: Sn Plated Brass

### Temperature Ranges
- **Operating**: -40 to +105 °C  
- **Storage**: -40 to +120 °C  
- **Weight**: 0.3 g

---

### Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Description</th>
<th>By</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-2017</td>
<td>Updated quantity per shipping box from 10,000 to 25,000 units. Updated number of reels from 4 to 10.</td>
<td>JL</td>
<td>2019-01-03</td>
</tr>
<tr>
<td>6-2019</td>
<td>Migrate to new format</td>
<td>JL</td>
<td>2019-03-22</td>
</tr>
</tbody>
</table>

Warranty: For a period of one (1) year from date of shipping under normal operations conditions This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair.

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.

©2020 Challenge Electronics, Inc. Pub. 20200224145524