E-Series RF 2.56:1 Impedance Ratio Center Taped Transformer
5 - 65 MHz

Features
- Surface Mount
- 1:2.56 Impedance Ratio Center taped.
- Available on Tape & Reel

Description
M/A-COM’s MABAES0017 is a 2.56:1 RF Flux Coupled transformer in a low cost, surface mount package. Ideally suited for high volume CATV applications.

Electrical Specifications @25°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Nominal</th>
<th>Typical</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>MHz</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Insertion Loss 5-65 MHz</td>
<td>dB</td>
<td>—</td>
<td>0.8</td>
<td>—</td>
<td>1.0</td>
</tr>
<tr>
<td>Amplitude Balance 5-65 MHz</td>
<td>dB</td>
<td>—</td>
<td>0.02</td>
<td>—</td>
<td>0.1</td>
</tr>
<tr>
<td>Phase Balance 5-65 MHz</td>
<td>Degrees</td>
<td>—</td>
<td>0.2</td>
<td>—</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Please Note that the photograph above indicates package shape only, unit may be wired differently.
### Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Power</td>
<td>250 mW</td>
</tr>
<tr>
<td>DC Current</td>
<td>30 mA</td>
</tr>
<tr>
<td>Operating/Storage Temperature</td>
<td>-40°C to +85°C</td>
</tr>
</tbody>
</table>

### Typical Performance @ +25°C

#### Insertion Loss 1

- **Frequency (MHz)**
  - 5.00
  - 17.00
  - 29.00
  - 41.00
  - 53.00
  - 65.00

#### Insertion Loss 2

- **Frequency (MHz)**
  - 5.00
  - 17.00
  - 29.00
  - 41.00
  - 53.00
  - 65.00

### Functional Configuration

<table>
<thead>
<tr>
<th>Function</th>
<th>Pin No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>4</td>
</tr>
<tr>
<td>Primary Dot</td>
<td>5</td>
</tr>
<tr>
<td>Secondary</td>
<td>3</td>
</tr>
<tr>
<td>Secondary Dot</td>
<td>1</td>
</tr>
<tr>
<td>Centre Tap</td>
<td>2</td>
</tr>
</tbody>
</table>

### Amplitude Balance

- **Frequency (MHz)**
  - 5.00
  - 17.00
  - 29.00
  - 41.00
  - 53.00
  - 65.00

### Phase Balance

- **Degrees**
  - 160.00
  - 170.00
  - 180.00
  - 190.00
  - 200.00

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**ADVANCED**: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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