Coaxial Phase Detector

50Ω High Output 1 to 100 MHz

Maximum Ratings
- Operating Temperature: -55°C to 100°C
- Storage Temperature: -55°C to 100°C
- Input Power: 50mW
- Peak IF current: 20mA

Coaxial Connections
- RF REF (RF2): 1
- RF IN (RF1): 3
- DC OUT (I): 2

Outline Drawing

Outline Dimensions (inch)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.25</td>
<td>1.38</td>
<td>1.24</td>
<td>.50</td>
<td>.150</td>
<td>3.100</td>
<td>.138</td>
<td>1.238</td>
</tr>
<tr>
<td>2</td>
<td>57.15</td>
<td>35.05</td>
<td>31.50</td>
<td>12.70</td>
<td>3.81</td>
<td>78.74</td>
<td>3.51</td>
<td>31.45</td>
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</tbody>
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Features
- wideband, 1 to 100 MHz
- low DC offset, 0.2 mV typ.
- high DC output, 1000 mV typ.

Applications
- monitoring circuits
- leveling circuits
- PLL

Case Style: M22

Connectors
- BNC: ZRPD-1+ $57.35 (1-9)
- BRACKET (OPTION “B”): $5.00 (1-9)
- BRACKET (OPTION “BR”): $1.50 (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

Permanent damage may occur if any of these limits are exceeded.

Notes:
1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet.
2. Electrical specifications and performance data contained herein are based on Mini-Circuits’ applicable established test performance criteria and measurement instructions.
3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and remedies contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp.