Self Bias Network

Functional Application
- Wireless communication modules
- MIC broadband high gain RF/Microwave modules
- Bias line voltage divider and integrated decoupling capacitor

Benefits
- Improves gain flatness and stability in GaAs FET
- Simplifies assembly with 1 component
- Miniature size: .020 x .034 (.5mm x .86mm)

Physical Characteristics

Equivalent Schematic Representation

Benefits
- Improves gain flatness and stability in GaAs FET
- Simplifies assembly with 1 component
- Miniature size: .020 x .034 (.5mm x .86mm)

Recommended Mounting: The self Bias Network should be mounted with fully metalized side down directly on the RF ground plane for best performance.

Product Number Identification

<table>
<thead>
<tr>
<th>Product</th>
<th>Width</th>
<th>Material</th>
<th>Network Type</th>
</tr>
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<tbody>
<tr>
<td>B=BiNet</td>
<td>28</td>
<td>BJ +/- 15% TC</td>
<td>SBN01</td>
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Physical Characteristics

Typical Application

Custom Networks can be designed per customer specification. Please consult factory for additional information or special requirements.
Bias Filter Network

Functional Application

- Wireless communication modules
- Ideal varactor decoupling element
- High gain RF/Microwave modules
- Ideal GaAs FET gate biasing device
- MMIC multichip modules

Benefits

- Filters noise and RF from Supplies
- Reduces RF feedback through bias supplies
- Simplifies assembly - one component replaces many
- Designed with large 4 mil wirebond pads for assembly ease

Physical Characteristics

Equivalent Schematic Representation

- Total Series Resistance: 600 nominal
- Total Shunt Capacitance: BT material - 140pF nominal, BH material - 95pF nominal
- DC Rating: Volts Max: 50V, I(max) Max: 10mA
- Recommended Mounting: The Bias Filter Network should be mounted with fully metallized side down directly on RF ground plane for maximum isolation performance.

Product Number Identification

- B = Bias Network
- Width 28
- Material BL +/- 25% TC
- Network Type

Isolation vs. Frequency

Typical Application

Custom Networks can be designed per customer specification. Please consult factory for additional information or special requirements.