

Self Bias Network

For self biased MIC GaAs Fet amplifiers, this device integrates source decoupling and user selectable bias resistance

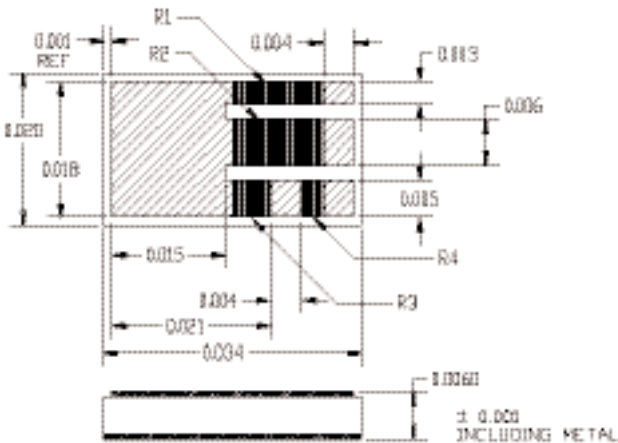
Functional Applications

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

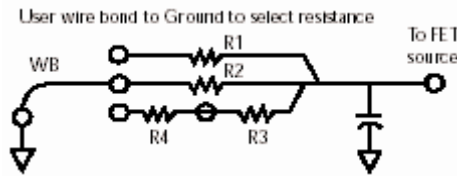
Benefits

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

Physical Characteristics



Equivalent Schematic Representation



Resistor Values:

- R1 - 200Ω
- R2 - 100Ω
- R3 - 50Ω
- R4 - 20Ω

Nominal Capacitance:

50pF

Typical application requires 2 networks

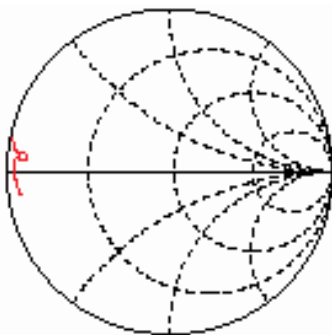
Recommended Mounting: The Self Bias Network should be mounted with fully metalized side down directly on the RF ground plane for best performance

Product Number Identification

B 20 BH SBN01

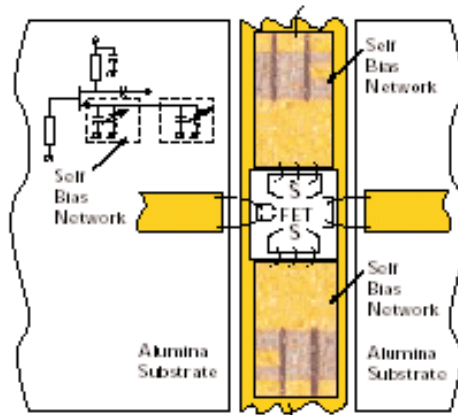
Product B = Bias Network	Width 28	Material BH ± 15% TC BT +22,-56% TC	Network Type
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Physical Characteristics



Typical S11
Frequency Range: 1.0 to 20 GHz
Reflection Coefficient: 50Ω Normalized

Typical Application



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

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