Self Bias Network

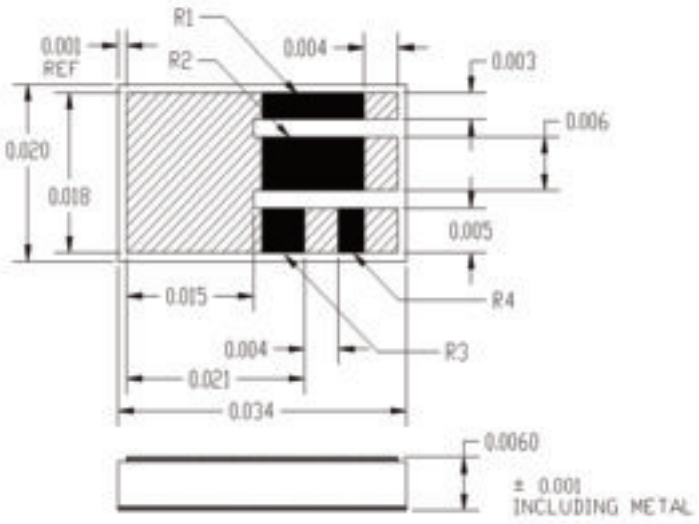
Functional Application

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

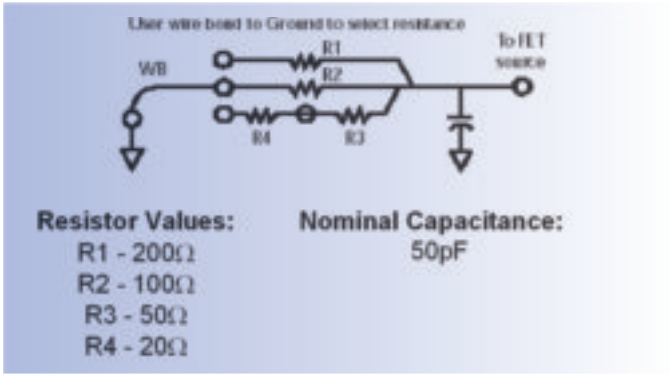
Benefits

- 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



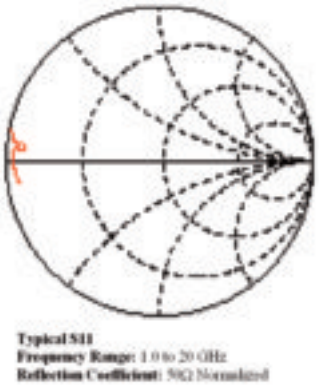
Typical application requires 2 networks

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

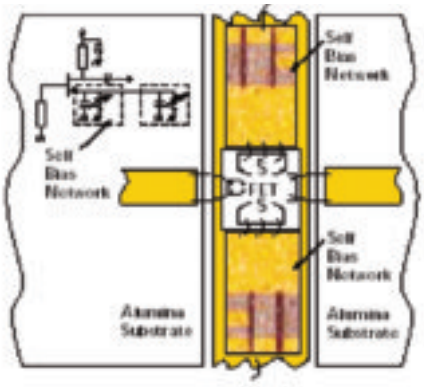
Product Number Identification

B	28	BJ	SBN01
Product B=Bias Network	Width 28	Material BJ +/- 15% TC	Network Type

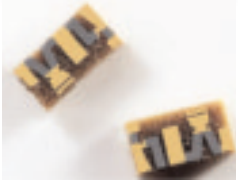
Physical Characteristics



Typical Application



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



Bias Filter Network

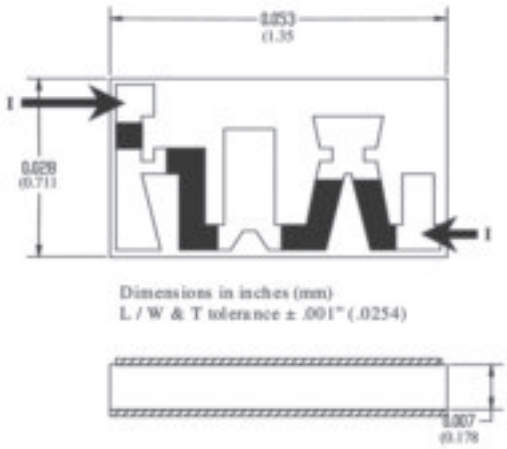
Functional Application

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

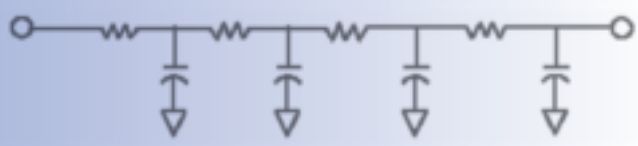
Benefits

- 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

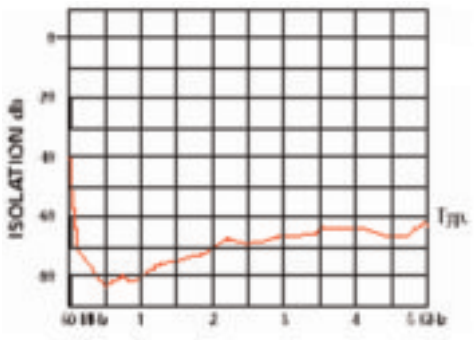
I(ma) Max: 10Ma

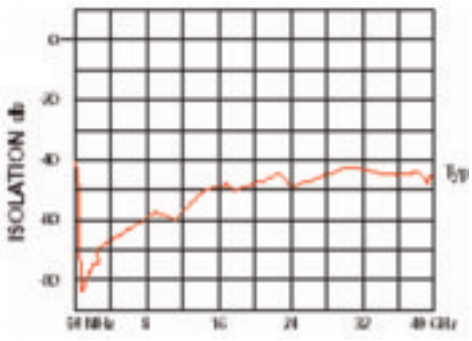
Recommended Mounting: The Bias Filter Network should be mounted with fully metallized side down directly on RF ground plane for maximum isolation performance.

Product Number Identification

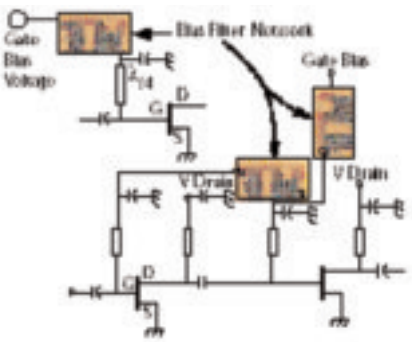
B	20	BL	BFN01
Product B=Bias Network	Width 28	Material BL +/- 25% TC	Network Type

Isolation vs. Frequency





Typical Application



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