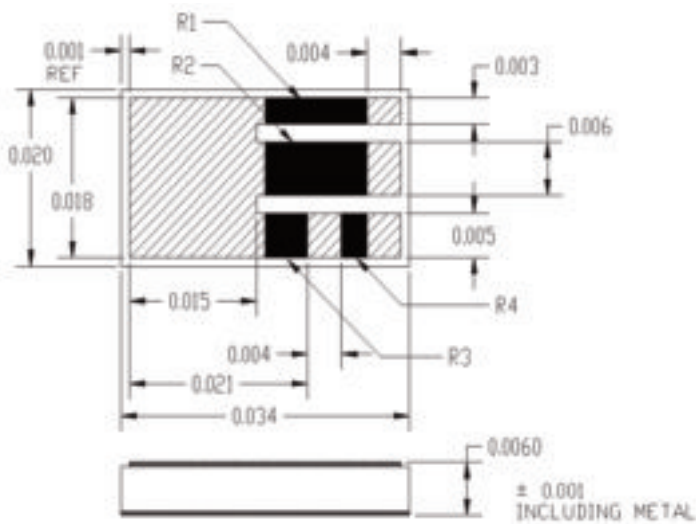


Self Bias Network

Functional Application

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

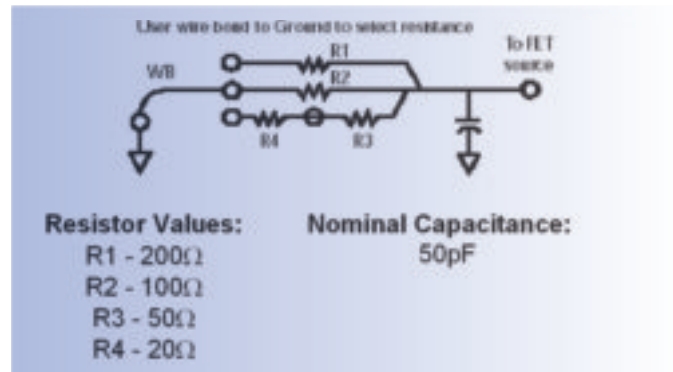
Physical Characteristics



Benefits

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

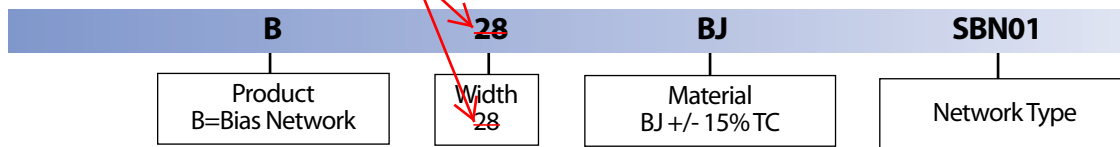
Equivalent Schematic Representation



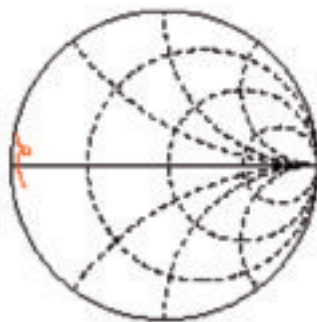
Typical application requires 2 networks

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

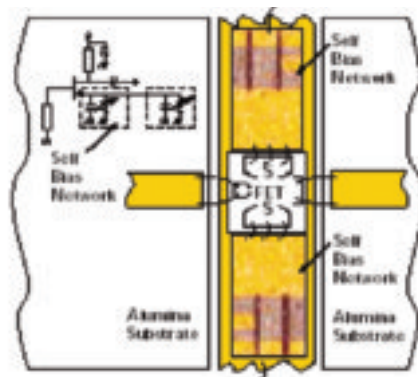


Physical Characteristics

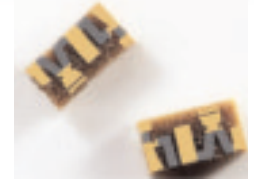


Typical S11
Frequency Range: 1.0 to 20 GHz
Reflection Coefficient: S11 Normalized

Typical Application



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



Bias Filter Network

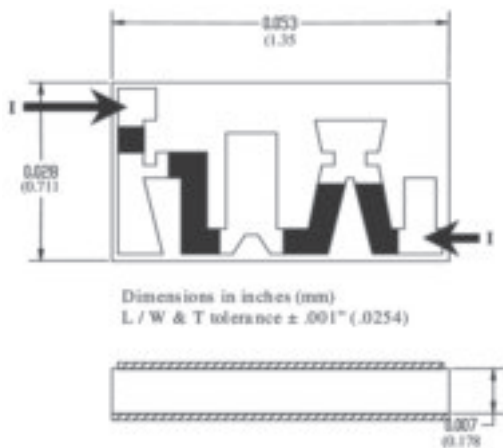
Functional Application

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

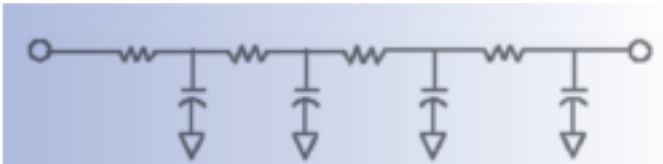
Benefits

- 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

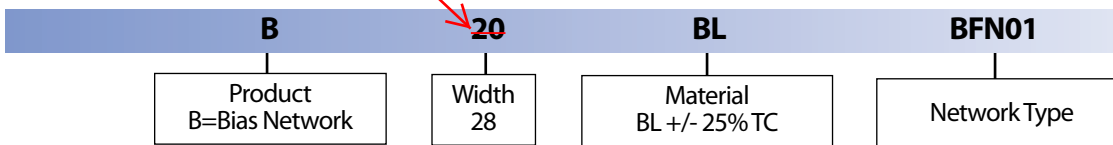
Total Shunt Capacitance:
BT material - 140pF nominal BT?
~~BH material - 95pF nominal~~

DC Rating: Volts Max: 50V **I(ma) Max:** 10Ma

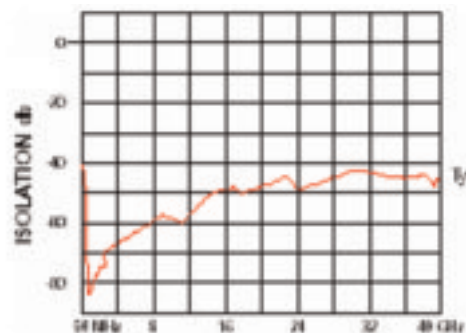
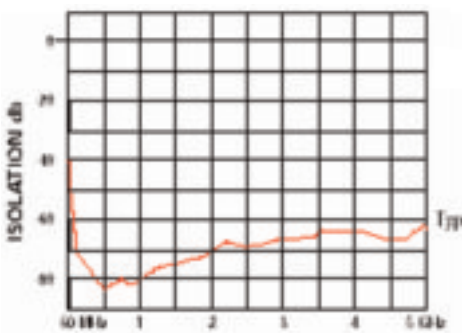
Recommended Mounting: The Bias Filter Network should be mounted with fully metallized side down directly on RF ground plane for maximum isolation performance.

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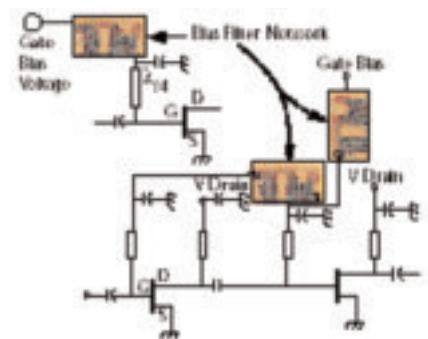
Number Identification



Isolation vs. Frequency



Typical Application



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