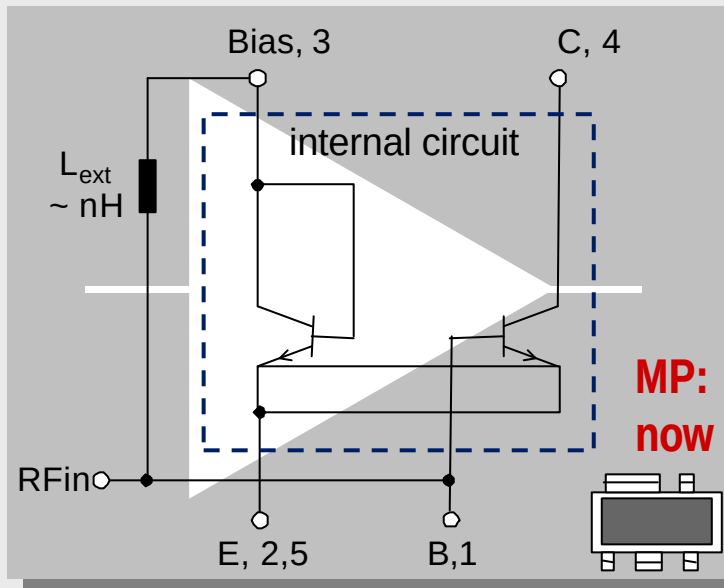
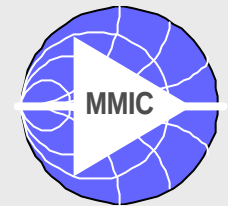


# BGB550

## Medium power broadband amplifier

**NEW**



### Features and Benefits

- mirror biased RF transistor
- collector current up to **350mA**
- low operation voltage  $V_{CC} < 3V$
- high output power & linearity
- input matching improved by  $L_{ext}$
- SCT595 package

| Vd = 2.0V, Id = 100mA                       |                                    |           |      |                |
|---------------------------------------------|------------------------------------|-----------|------|----------------|
| Symbol                                      | Parameter                          | frequency | Unit | Value          |
| <b>IS21I<sup>2</sup> / (G<sub>MA</sub>)</b> | Power Gain / (max. available)      | 900 MHz   | dB   | 17 (22)        |
|                                             |                                    | 1.8 GHz   |      | <b>11 (16)</b> |
| <b>NF</b>                                   | Noise Figure                       | 900 MHz   | dB   | 1.3            |
|                                             |                                    | 1.8 GHz   |      | <b>1.5</b>     |
| <b>P-1dB</b>                                | Output Compression Point           | 900 MHz   | dBm  | 19             |
|                                             |                                    | 1.8 GHz   |      | 19             |
| <b>OIP3</b>                                 | Output Third Order Intercept Point | 900 MHz   | dBm  | 28             |
|                                             |                                    | 1.8 GHz   |      | 28             |