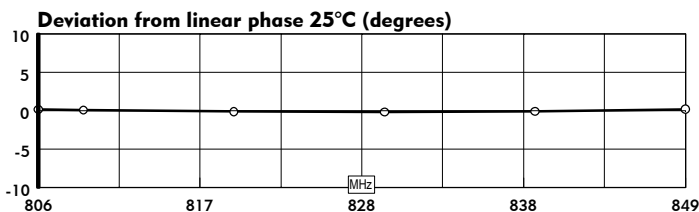
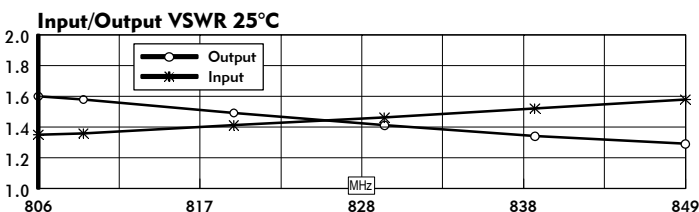
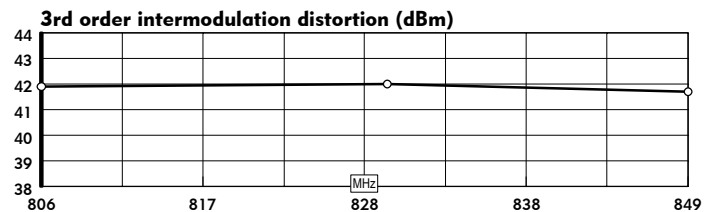
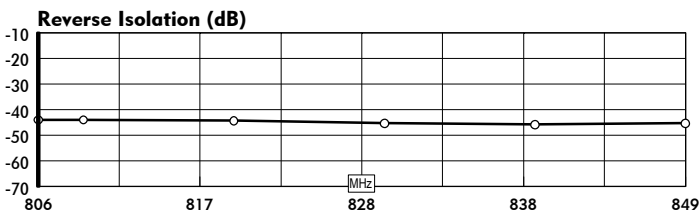
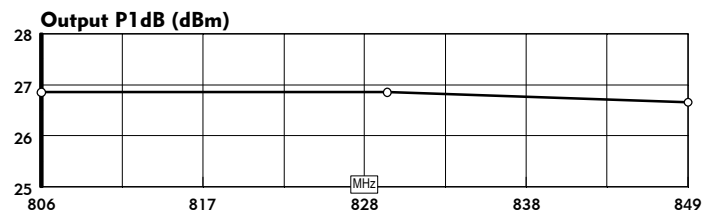
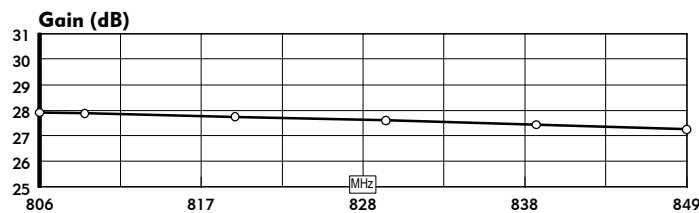


## QBS-110

- **806-849 MHz bandwidth**
- **High dynamic range**
- **Excellent 3rd order intercepts**
- **Low noise figure**

| Parameters             | Guaranteed        | Guaranteed | Units       |
|------------------------|-------------------|------------|-------------|
|                        | 25°C              | °C         |             |
| Frequency range        | 806 - 849         |            | MHz         |
| Small signal gain      | 27.0 ± 1.0        |            | dB          |
| Gain vs. temperature   |                   |            | dB Max      |
| Gain flatness          | 2.0               |            | dB Max p-p  |
| Reverse isolation      | 37                |            | dB Min      |
| VSWR Input             | 1.7:1             |            | Max         |
| Output                 | 1.7:1             |            | Max         |
| 1 dB compression       | +26               |            | dBm Min     |
| Output intercept point |                   |            |             |
| 3rd Order              | +41               |            | dBm Min     |
| 2nd Order              |                   |            | dBm Min     |
| Noise figure           | 2.0               |            | dB Max      |
| DC supply voltage*     | 15                |            | Vdc         |
| DC supply current      | 460               |            | mA Max      |
| Gain vs. Vdc           |                   |            | dB/Volt Max |
| Package/Housing        | 19069 (E52-19069) |            |             |

\*all specification ratings are based on DC supply voltage ± 1%



### TYPICAL S-PARAMETER DATA

| MHz | S11   |       | S21  |        | S12   |       | S22   |      |
|-----|-------|-------|------|--------|-------|-------|-------|------|
|     | dB    | Ang   | dB   | Ang    | dB    | Ang   | dB    | Ang  |
| 806 | -16.6 | 151.6 | 27.9 | -127.8 | -44.0 | -64.5 | -12.7 | 52.8 |
| 809 | -16.3 | 148.3 | 27.9 | -130.6 | -44.0 | -65.2 | -13.0 | 49.9 |
| 819 | -15.3 | 137.8 | 27.7 | -140.0 | -44.3 | -77.6 | -14.1 | 40.2 |
| 829 | -14.5 | 128.4 | 27.6 | -149.3 | -45.3 | -79.4 | -15.4 | 29.7 |
| 839 | -13.7 | 121.2 | 27.4 | -158.4 | -45.8 | -95.8 | -16.7 | 17.8 |
| 849 | -13.0 | 115.5 | 27.3 | -167.3 | -45.4 | -98.9 | -18.1 | 2.7  |

### ABSOLUTE MAXIMUM RATINGS

|                         |       |
|-------------------------|-------|
| Power supply voltage    |       |
| Sustaining .....        | Vdc   |
| Pulse (transient) ..... | Vdc   |
| Temperature             |       |
| Operating .....         | to °C |
| Storage .....           | to °C |