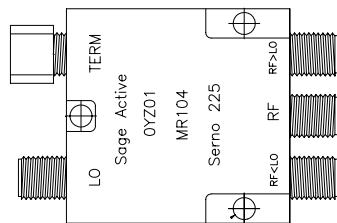


**SPECIFICATION BULLETIN MR104 IMAGE REJECTION MIXER**  
**RF/LO: 6.0 to 18.0 GHz IF: 20 to 500 MHz**

**Standard Product Features:**

- Broadband RF Coverage
- Triple Balance Mixers
- Field Replaceable SMA Connectors
- Environmentally Sealed Package



| SPECIFICATIONS                               | TYPICAL | Min.    | Max.     |
|--|---------|---------|----------|
| RF Frequency Range                           | -----   | 6.0 GHz | 18.0 GHz |
| IF Frequency Range (Octave Bands)            | -----   | 20 MHz  | 500 MHz  |
| Conversion Loss                              | 6.5 dB  | ----    | 9.5 dB   |
| Image Rejection                              | 35 dB   | 16 dB   | ----     |
| LO Drive Level                               | --      | +9 dBm  | +13 dBm  |
| Isolation, LO to RF                          | 35 dB   | 20 dB   | ---      |
| LO to IF                                     | 35 dB   | 20 dB   | ---      |
| VSWR, RF                                     | 1.5:1   | ---     | 2.4:1    |
| LO   | 1.8:1   | ---     | 2.8:1    |
| IF   | 1.2:1   |         | 2.2:1    |
| Input 1 dB Compression (Input) (Note 1)      | +5 dBm  | +2 dBm  | ---      |
| Input Two-Tone Third Order IP (IP3) (Note 1) | +15 dBm | +10 dBm | ---      |
| Operating Temperature Range                  | ---     | -54° C  | +95° C   |
| Storage Temperature Range                    | ---     | -65° C  | +125° C  |

Note 1: LO Power level = +9 dBm

**OUTLINE DRAWING**

