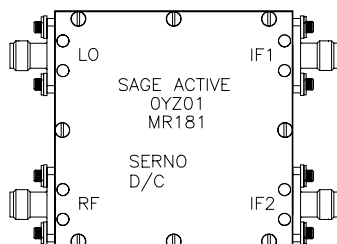




## SPECIFICATION BULLETIN

## MR181 MIXER (SSBM) RF/LO: 6 to 18 GHz IF: 40 to 80 MHz



### Standard Product Features

- Broadband RF Coverage
- Field Replaceable SMA Connectors
- Suitable for Stripline Integration
- Sideband Rejection 30 dB typ
- Carrier Suppression 28 dB typ
- VSWR 1.8:1 Typical

|                                     | TYPICAL | Min.   | Max.   |
|-------------------------------------|---------|--------|--------|
| RF/LO Frequency Range               | ----    | 6 GHz  | 18 GHz |
| IF Modulation Frequency Range       | ----    | 40     | 80 MHz |
| Conversion Loss                     | 8 dB    | ----   | 10 dB  |
| Sideband Suppression (See note)     | 25 dB   | 17 dB  | ----   |
| Carrier Suppression                 | 28 dB   | 17 dB  | ----   |
| IF Drive Level                      | 11 dBm  | 10 dBm | 12 dBm |
| VSWR, RF                            | 2.4:1   | ---    | 2.8:1  |
| LO                                  | 1.6:1   | ---    | 2.0:1  |
| IM Suppression $\pm 2$ IF           | 28 dBc  | 25 dBc |        |
| IM Suppression $\pm 3$ IF           | 14 dBc  | 11 dBc | ---    |
| Input 1 dB Compression (Input)      | 4 dBm   | 3 dBm  | ---    |
| Input Two-Tone Third Order IP (IP3) | 13 dBm  | 10 dBm | ---    |
| Operating Temperature Range         | ---     | -40°C  | +105°C |
| Storage Temperature Range           | ---     | -65°C  | +125°C |

Note: RF Output > Carrier with Modulation Signal applied to IF1.  
RF Output < Carrier with Modulation Signal applied to IF2.

### OUTLINE DRAWING

