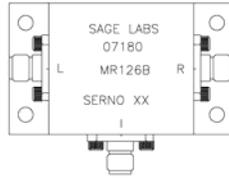


**SPECIFICATION BULLETIN      MR126B DOUBLE BALANCED MIXER      RF/LO: 1 to 18 GHz IF: DC to 500 MHz**

**Standard Product Features:**

- Low 1/f IF noise performance
- Broadband Performance 1 to 18 GHz
- 7.0 dB Typical Conversion Loss
- LO Drive Range 9 to 11 dBm
- High Isolation 40 dB LO - RF
- Field Replaceable Connectors
- Can be used as a Phase Detector



| SPECIFICATIONS                            | TYPICAL | Min.  | Max.  |
|---|---------|-------|-------|
| RF/LO Frequency Range (GHz)               | -----   | 1     | 18    |
| IF Frequency Range (3dB Bandwidth) (MHz)  | -----   | DC    | 500   |
| Conversion Loss (dB)                      | 7.0     | ----- | 9.5   |
| VSWR, RF Port                             | 2.2:1   | ---   | ----- |
| LO Port                                   | 1.6:1   | ---   | ----- |
| Isolation, LO to RF (dB)                  | 40      | 22    | ---   |
| LO to IF (dB)                             | 35      | 18    | ----- |
| LO Drive Range (dBm)                      | 10      | 9     | 11    |
| Input 1 dB Compression Point (dBm)        | +4      | +2    | ----- |
| Input Two-Tone Third Order IP (IP3) (dBm) | +15     | +10   | ----- |
| Operating Temperature Range (Degrees C)   | -----   | -54   | +95   |
| Storage Temperature (Degrees C)           | -----   | -65   | +125  |

Note: Custom designs are also available. Consult factory for assistance on your specific requirements.

**OUTLINE DRAWING**

