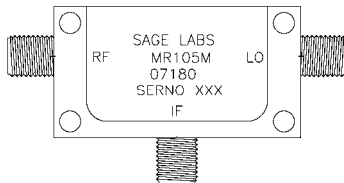


SPECIFICATION BULLETIN **MR 105M Double Balanced Mixer**
RF/LO: 2 to 18 GHz IF: DC to 800 MHz

Standard Product Features:

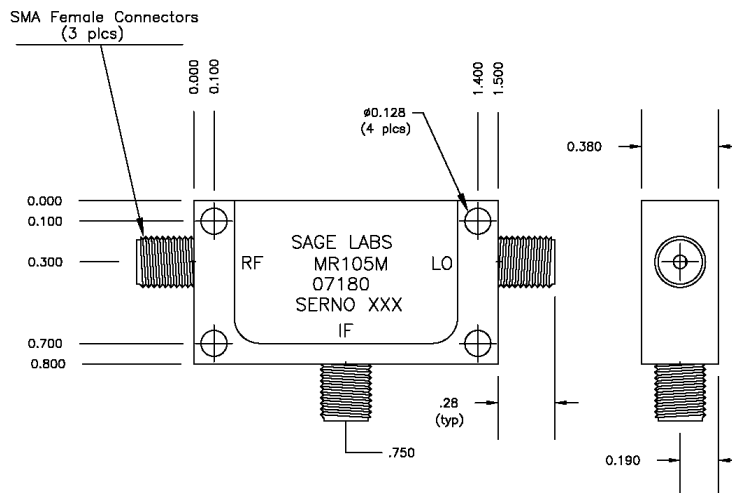
- Broadband Performance
- 5.5 dB Typical Conversion Loss
- 35 dB Typical Isolation
- DC Coupled IF
- Low Cost
- Versatile Package



| SPECIFICATIONS | TYPICAL | Min. | Max. |
|---|---------|-------|-------|
| RF/LO Frequency Range (GHz) | ----- | 2 | 18 |
| IF Frequency Range (3dB Bandwidth) (MHz) | ----- | DC | 800 |
| Conversion Loss (dB) (IF = DC to 500 MHz) | 5.5 | ----- | 9.5 |
| VSWR, RF Port | 2.2:1 | --- | ----- |
| LO Port | 1.8:1 | --- | ----- |
| Isolation, LO to RF (dB) | 35 | 20 | --- |
| LO to IF (dB) | 25 | 15 | ----- |
| LO Drive Range (dBm) | 13 | 11 | 15 |
| Input 1 dB Compression Point (dBm) | +9 | +6 | ----- |
| Input Two-Tone Third Order IP (IP3) (dBm) | +19 | +14 | ----- |
| Operating Temperature Range (Degrees C) | ----- | -54 | +95 |
| Storage Temperature (Degrees C) | ----- | -65 | +125 |

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

OUTLINE DRAWING



Specification Revision - 071910