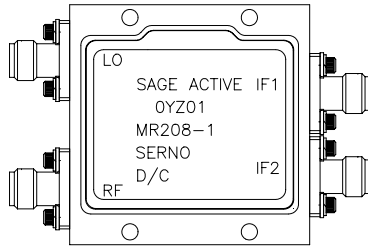


SPECIFICATION BULLETIN **MR208-1 MIXER (QIFM)**
RF/LO: 2 to 4 GHz **IF: DC to 100 MHz**



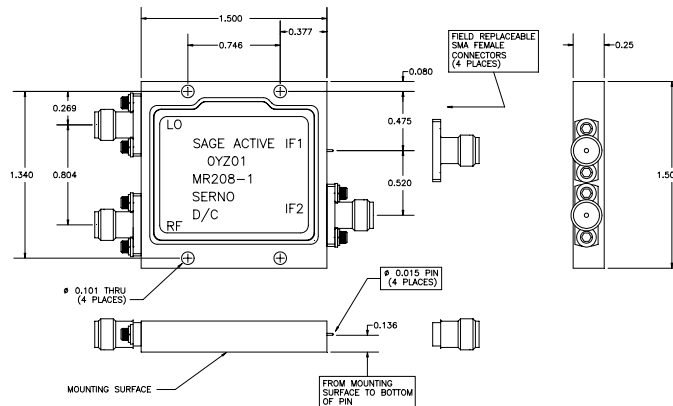
Standard Product Features

- Broadband RF Coverage
- Field Replaceable SMA Connectors
- Suitable for Stripline Integration
- Quadrature Phase $\pm 4^\circ$ Typical
- Amplitude Balance ± 0.4 dB Typical
- VSWR 1.5:1 Typical
- Available as a hermetic product

SPECIFICATIONS	TYPICAL	Min.	Max.
RF/LO Frequency Range	----	2 GHz	4 GHz
IF Frequency Range (3 dB Bandwidth)	----	DC	100 MHz
Conversion Loss	10 dB	----	12 dB
Quadrature Phase Balance	$\pm 4^\circ$	----	$\pm 10^\circ$
Amplitude Balance	± 0.4 dB	----	± 1.0 dB
DC Offset	± 4 mV	----	± 10 mV
LO Drive Level	13 dBm	12 dBm	14 dBm
Isolation, LO to RF	30 dB	20 dB	---
LO to IF	22 dB	15 dB	---
VSWR, RF	2.2:1	---	2.5:1
LO	1.4:1	---	2.0:1
Input 1 dB Compression (Input)	6 dBm	2 dBm	---
Input Two-Tone Third Order IP (IP3)	13 dBm	10 dBm	---
Operating Temperature Range ($^\circ\text{C}$)	---	-40	+85
Storage Temperature Range ($^\circ\text{C}$)	---	-65	+125

Detail Outline Information: Sage Active Microwave Drawing # 11202

OUTLINE DRAWING



NOTES:
1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: ELECTROLESS NICKEL PLATE PER MIL-C-26074
100 to 300 MICRO-INCHES THICK. (Direct Deposit)