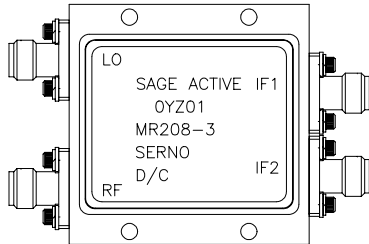


**SPECIFICATION BULLETIN**      **MR208-3 MIXER (QIFM)**  
**RF/LO: 6 to 10 GHz**    **IF: DC to 100 MHz**



**Standard Product Features**

- Field Replaceable SMA Connectors
- Suitable for Stripline Integration
- Quadrature Phase  $\pm 4^\circ$  Typical
- Amplitude Balance  $\pm 0.5$  dB Typical
- VSWR 1.5:1 Typical
- Available as a hermetic product

SPECIFICATIONS	TYPICAL	Min.	Max.
RF/LO Frequency Range	---	6 GHz	10 GHz
IF Frequency Range (3 dB Bandwidth)	---	DC	100 MHz
Conversion Loss	10 dB	---	12 dB
Quadrature Phase Balance	$\pm 5^\circ$	---	$\pm 10^\circ$
Amplitude Balance	$\pm 0.6$ dB	---	$\pm 1.5$ dB
DC Offset	$\pm 4$ mV	---	$\pm 10$ 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 <sub>3</sub>	13 dBm	10 dBm	---
Operating Temperature Range (°C)	---	-40	+85
Storage Temperature Range (°C)	---	-65	+125

Detail Outline Drawing Information: Sage Active Microwave Drawing # 11208

**OUTLINE DRAWING**

