



**SPECIFICATION  
BULLETIN**

**MR141M Open Substrate Mixer  
RF / LO: 2.0 – 18.0 GHz IF: DC to 500 MHz**

**Standard Product Features:**

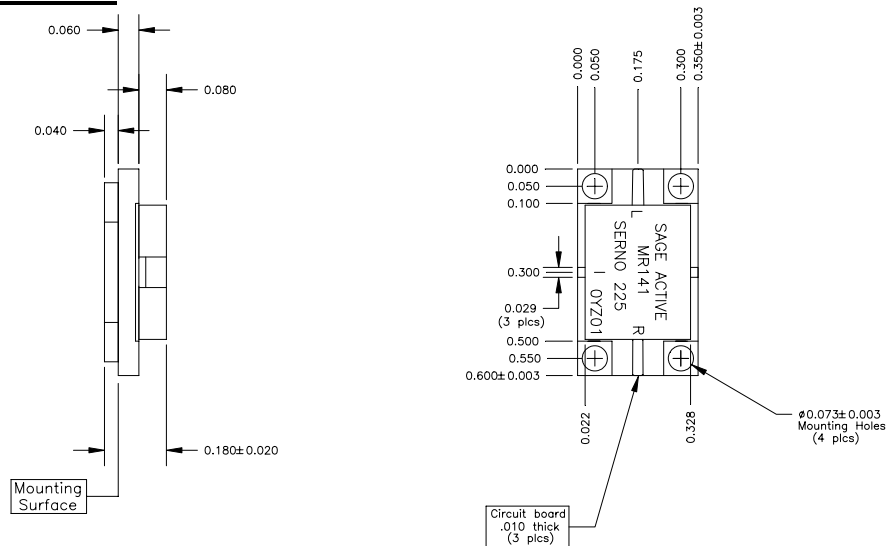
- Surface Mount (Drop-in)
- Double Balanced
- 5.5 dB Typical Conversion Loss
- 30 dB Typical Isolation
- Can be used as Phase Detector
- Low Cost
- Protective Covers



SPECIFICATIONS	TYPICAL	Min.	Max.
RF /LO Frequency Range	----	2 GHz	18 GHz
IF Frequency Range (3 dB Bandwidth)	----	DC	1000 MHz
Conversion Loss	5.5 dB	----	9.0 dB
LO Drive Level (dBm)	13.0	11.0	15.0
Isolation, LO to RF	30 dB	18 dB	---
LO to IF	25 dB	15 dB	---
VSWR, RF	2.2:1	---	---
LO	1.8:1	---	---
Input 1 dB Compression	8 dBm	5 dBm	---
Input Two-Tone Third Order IP (IP3)	18 dBm	13 dBm	---
Operating Temperature Range	---	-54 C	+95 C
Storage Temperature Range	---	-65 C	+125 C

Alternate LO Drive Ranges are available. Consult factory for assistance on your requirements.

**OUTLINE DRAWING:**



**Sage Laboratories, Inc.**

**8 Executive Drive • Hudson, NH 03051-4902 • Phone: 603-459-1600 • Fax: 603-459-1605**

**WEB SITE: [www.sagelabs.com](http://www.sagelabs.com)**