

**SPECIFICATION BULLETIN MR116L TRIPLE BALANCED MIXER**  
**RF/LO: 2 to 18 GHz IF: 1 to 10 GHz**

**Standard Product Features:**

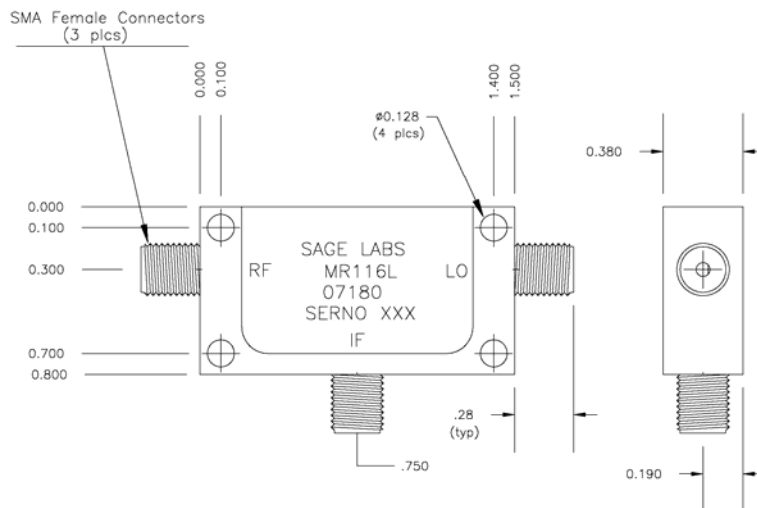
- Broadband RF Performance
- 6.0 dB Typical Conversion Loss
- 30 dB Typical Isolation
- IF Coverage 1.0 to 10.0 GHz
- Low Cost
- Versatile Package



Specifications	Typical	Min.	Max.
RF Input Frequency Range	-----	2.0 GHz	18.0 GHz
LO Frequency	-----	2.0 GHz	18.0 GHz
IF Output Frequency Range	-----	1.0 GHz	10.0 GHz
Conversion Loss	6.5 dB	----	10.5 dB
LO Drive Level	11 dBm	9 dBm	13 dBm
Isolation, LO to RF	30 dB	20 dB	---
LO to IF	25 dB	15 dB	---
VSWR, RF	2.2:1	---	---
LO	1.6:1	---	---
Input Two-Tone Third Order IP (IP3)	17 dBm	12 dBm	---
Input 1 dB Compression (dBm)	7 dBm	4 dBm	---
Operating Temperature Range	---	-25 C	+75 C
Storage Temperature Range	---	-65 C	+125 C

Note: Alternate LO drive levels are available. Consult the factory for your specific requirements.

**OUTLINE DRAWING**



Specification Revision - 072010



**Sage**  
Active Microwave  
Hollis, N.H. 03049-6521

TYPICAL PERFORMANCE @ 25° C

MR 116  
(Triple Balanced Mixer)

Operating Parameters	
Freq. RF=	2 to 18 GHz
LO=	2 to 18 GHz
IF=	1.0 to 10.0 GHz
LO Power=	9 to 13dBm

