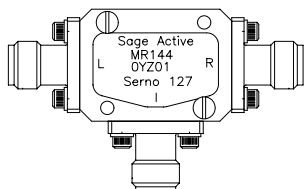


SPECIFICATION	MR144L Double Balanced Mixer
BULLETIN	RF/LO: 4 to 18 GHz IF: DC to 800 MHz



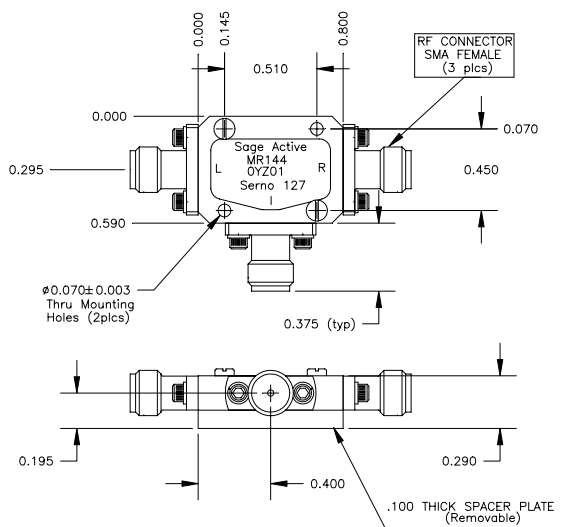
Standard Product Features

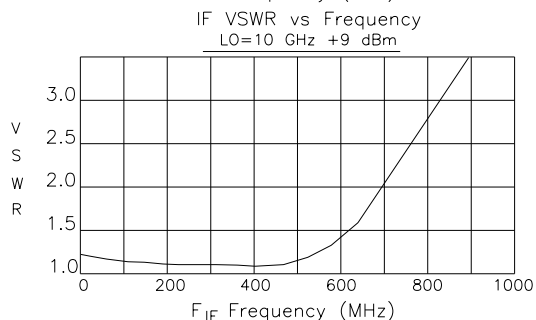
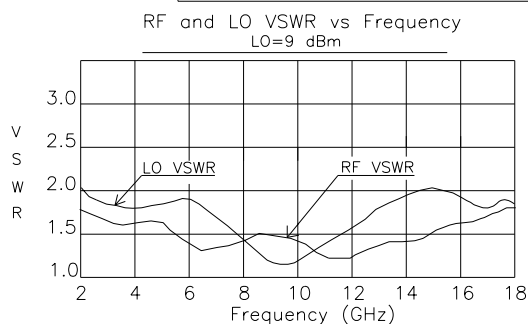
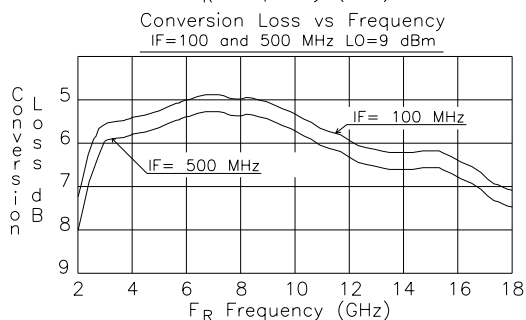
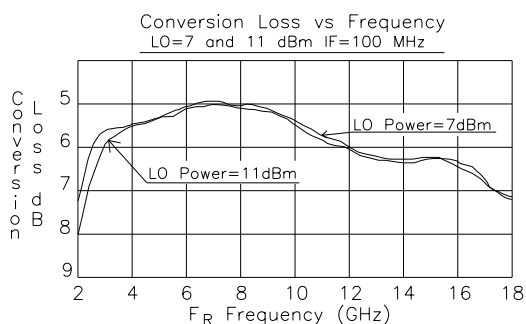
- SMA Removable Connectors
- Broadband Performance
- 5.5 dB Typical Conversion Loss
- 30 dB Typical Isolation
- IF Coverage to 800 MHz
- Double Balanced

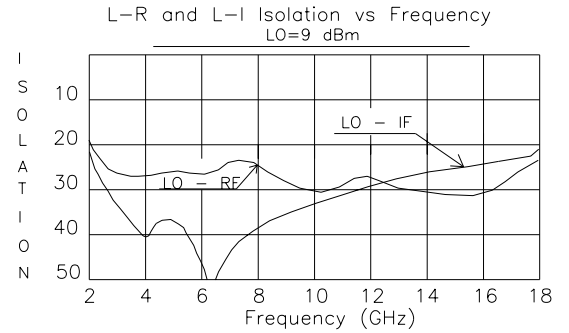
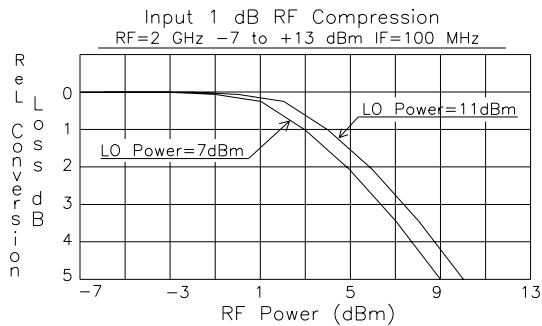
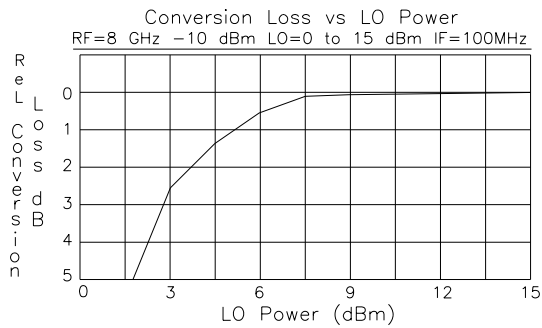
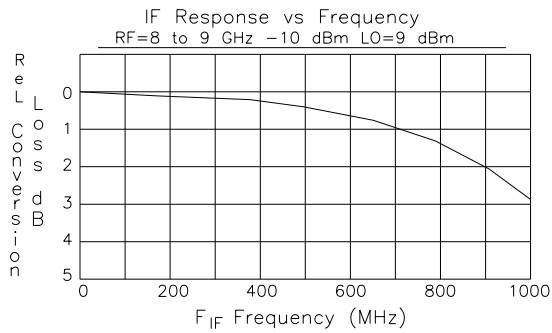
Specifications	Typical	Min.	Max.
RF/LO Frequency Range	-----	4 GHz	18 GHz
IF Frequency Range (3 dB Bandwidth)	-----	DC	800 MHz
Conversion Loss (IF = DC to 500 MHz)	5.5 dB	----	9.0 dB
LO Drive Level	9.0 dBm	7.0 dBm	11.0 dBm
Isolation, LO to RF	30 dB	18 dB	---
LO to IF	25 dB	15 dB	---
VSWR, RF	2.2:1	---	---
LO	1.8:1	---	---
Input 1 dB Compression	4 dBm	2 dBm	---
Input Two-Tone Third Order IP (IP3)	14 dBm	10dBm	---
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







Single Tone Intermodulation Products

Test Conditions:
 Frequency RF= 2.0 GHz LO= 2.1 GHz

Single Tone f_R f_{IM} f_L	RF =0dBm LO=7dBm LO=11dBm	RF =-5dBm LO=7dBm LO=11dBm	RF =-10dBm LO=7dBm LO=11dBm	RF =-15dBm LO=7dBm LO=11dBm	RF =-20dBm LO=7dBm LO=11dBm
2×1	43	45	46	49	49 53
2×2	50	48	54	58	57 62
3×2	49	56	53	61	58 68
3×3	29	29	35	39	43 48
4×3	68	68	>75	>75	>75 >75
5×4	55	61	64	73	>75 >75
6×3	>75	>75	>75	>75	>75 >75
6×5	73	75	>75	>75	>75 >75