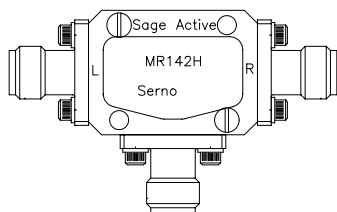


# **SPECIFICATION BULLETIN      MR142H Triple Balanced Mixer**

## **RF/LO: 4 to 18 GHz    IF: 10 to 5000 GHz**



### **Standard Product Features:**

- SMA Removable Connectors
- Broadband Performance
- 6.0 dB Typical Conversion Loss
- 30 dB Typical Isolation
- Broadband IF Coverage
- Triple Balanced
- Low Cost

| <b>SPECIFICATIONS</b>               | <b>TYPICAL</b> | <b>Min.</b> | <b>Max.</b> |
|-------------------------------------|----------------|-------------|-------------|
| RF/LO Frequency Range               | -----          | 4 GHz       | 18 GHz      |
| IF Frequency Range (3 dB Bandwidth) | -----          | 10 MHz      | 5000 MHz    |
| Conversion Loss                     | 6.0 dB         | ----        | 10.0 dB     |
| LO Drive Level                      | 20.5 dBm       | 19.0 dBm    | 22.0 dBm    |
| Isolation, LO to RF                 | 30 dB          | 20 dB       | ---         |
| LO to IF                            | 25 dB          | 15 dB       | ---         |
| VSWR, RF                            | 2.2:1          | ---         | ---         |
| LO                                  | 1.8:1          | ---         | ---         |
| Input 1 dB Compression              | 16 dBm         | 13 dBm      | ---         |
| Input Two-Tone Third Order IP (IP3) | +24 dBm        | +20 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**

