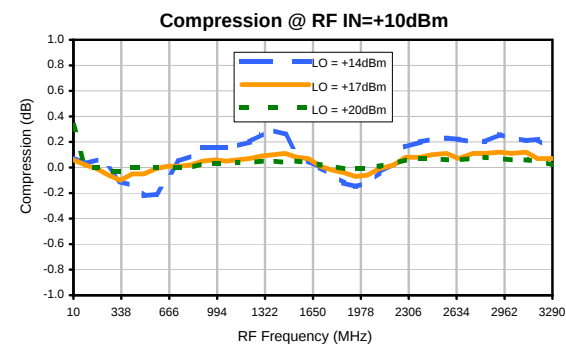
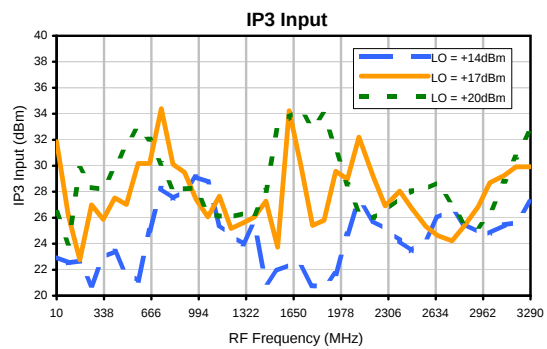
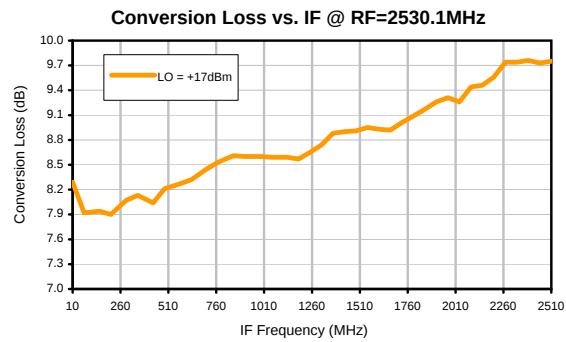
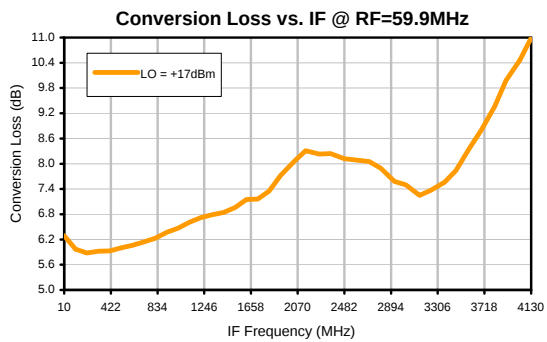
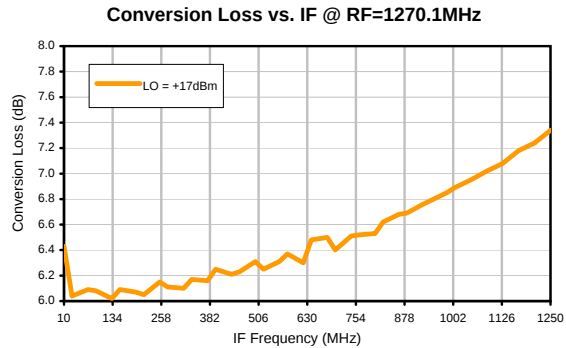
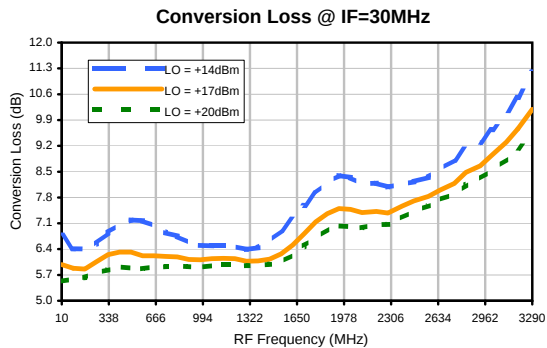


# Frequency Mixer

SYM-ED7061/1

## Typical Performance Curves

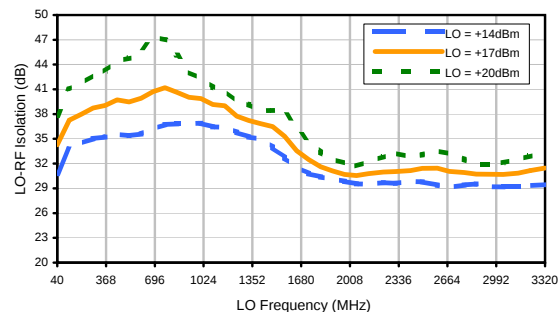


# Frequency Mixer

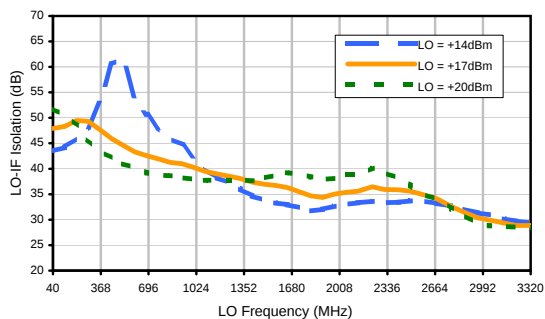
SYM-ED7061/1

## Typical Performance Curves

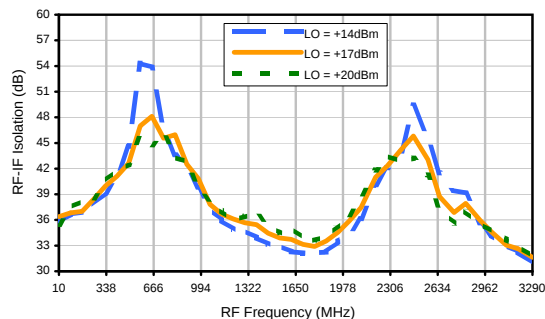
LO-RF Isolation



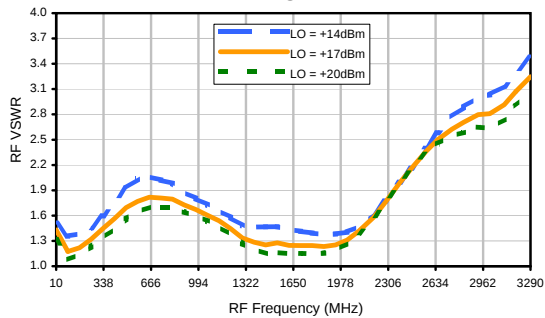
LO-IF Isolation



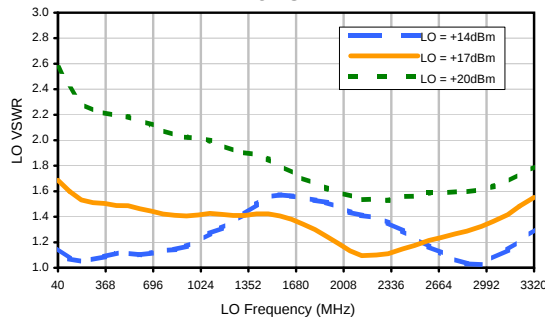
RF-IF Isolation



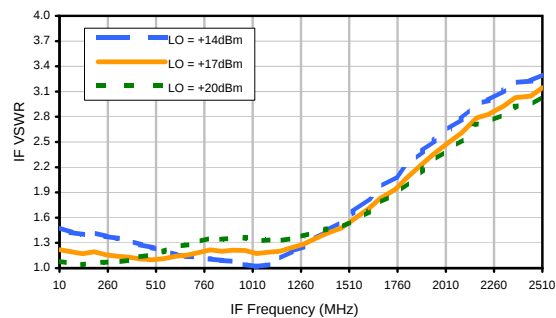
RF VSWR



LO VSWR



IF VSWR



# Frequency Mixer

SYM-ED7061/1

## Harmonics Tables

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |     |     |     |     |     |     |     |     |     |     |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0  | -      | -      | 8   | 10  | 16  | 22  | 13  | 32  | 34  | 42  | 22  | 67  |
| 1  | -      | 28     | +0  | 45  | 15  | 47  | 21  | 44  | 47  | 38  | 46  | 41  |
| 2  | 64     | 73     | 63  | >76 | 62  | 75  | 64  | 72  | 58  | >76 | 74  | >76 |
| 3  | >90    | >76    | 74  | >76 | 75  | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 4  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 5  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 6  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 7  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 8  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 9  | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
| 10 | >90    | >76    | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 | >76 |
|    | RF CAL | 0      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |

Test conditions:

RF IN: 1295 MHz; -5.00 dBm.  
LO IN: 1325 MHz; +17.00 dBm  
IF OUT: 30 MHz; -13.53 dBm

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |     |     |     |     |     |     |     |     |     |     |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0  | -      | -      | 20  | 21  | 30  | 37  | 26  | 46  | 48  | 54  | 37  | 75  |
| 1  | -      | 29     | +0  | 45  | 14  | 44  | 22  | 46  | 47  | 40  | 49  | 44  |
| 2  | 45     | 64     | 52  | 69  | 50  | 63  | 53  | 62  | 48  | 70  | 66  | 70  |
| 3  | >90    | 82     | 56  | 70  | 53  | 69  | 63  | 67  | 59  | 76  | 75  | 63  |
| 4  | >90    | >88    | >88 | >88 | 84  | >88 | 82  | >88 | 80  | >88 | 78  | >88 |
| 5  | >90    | >88    | >88 | >88 | 83  | >88 | 87  | >88 | 87  | >88 | 87  | >88 |
| 6  | >90    | >88    | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 |
| 7  | >90    | >88    | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 |
| 8  | >90    | >88    | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 |
| 9  | >90    | >88    | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 |
| 10 | >90    | >88    | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 | >88 |
|    | RF CAL | 0      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |

### LO HARMONICS ORDER

Test conditions:

RF IN: 1295 MHz; 5.00 dBm.  
LO IN: 1325 MHz; +17.00 dBm  
IF OUT: 30 MHz; -1.88 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.  
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.  
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.