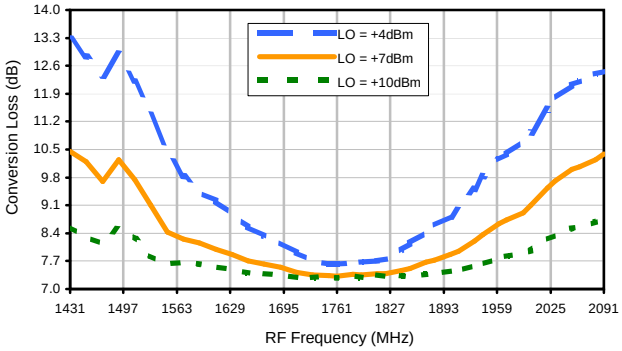
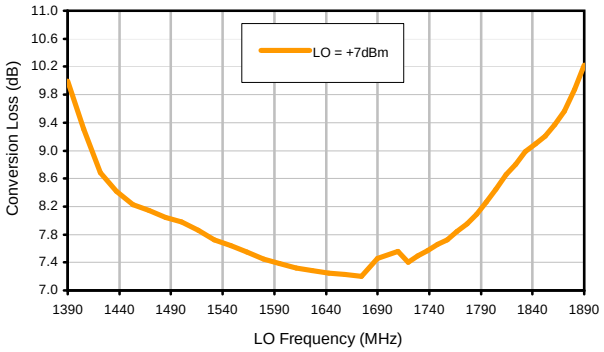
## *Typical Performance Curves*

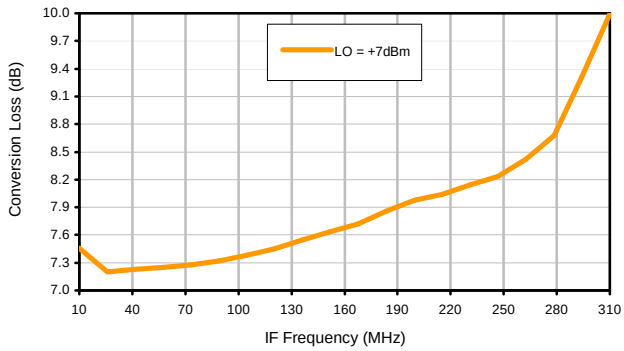
**Conversion Loss @ IF=125MHz**



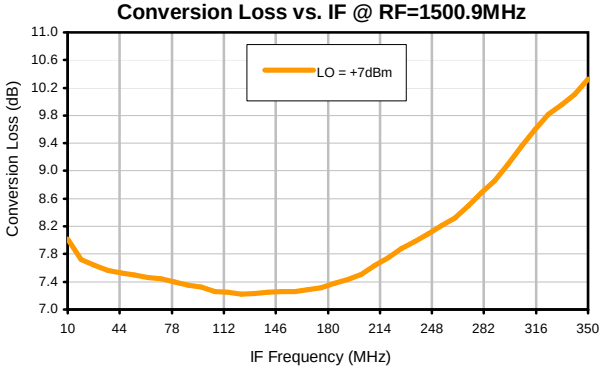

**Conversion Loss vs. LO @ RF=1700MHz**



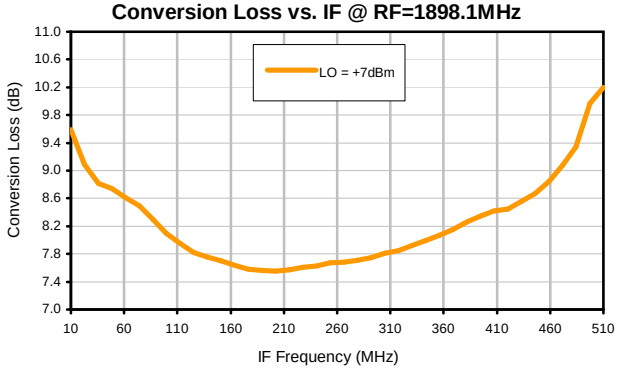

**Conversion Loss vs. IF @ RF=1700MHz**



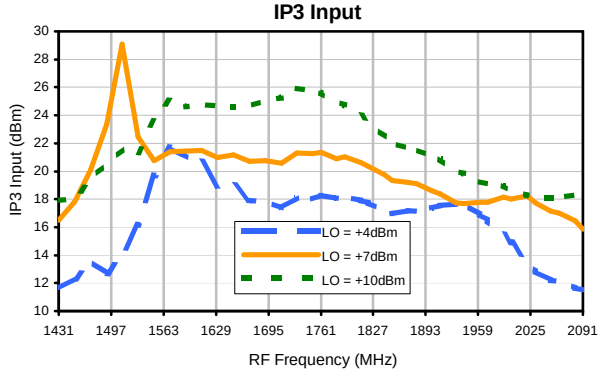

**Conversion Loss vs. IF @ RF=1500.9MHz**



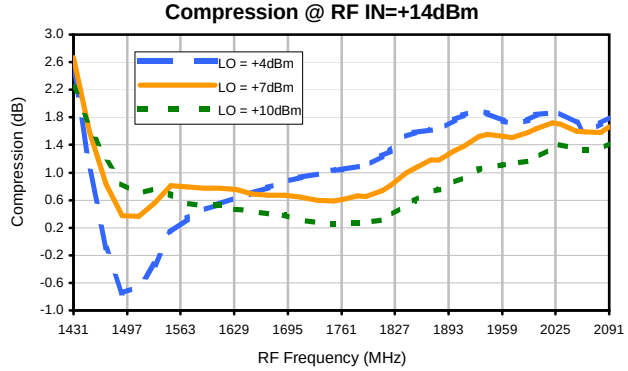

**Conversion Loss vs. IF @ RF=1898.1MHz**




**IP3 Input**




**Compression @ RF IN=+14dBm**







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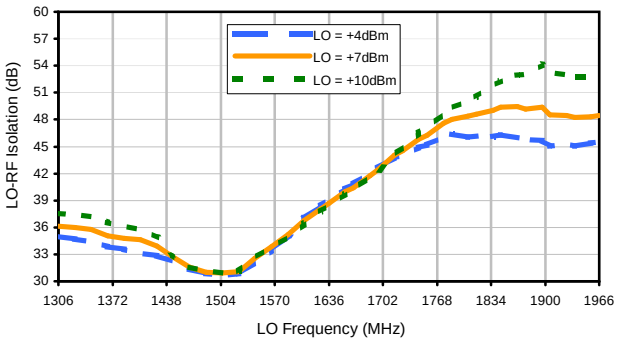
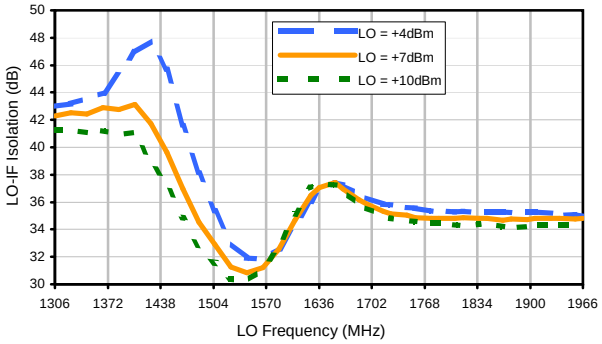
## *Typical Performance Curves*

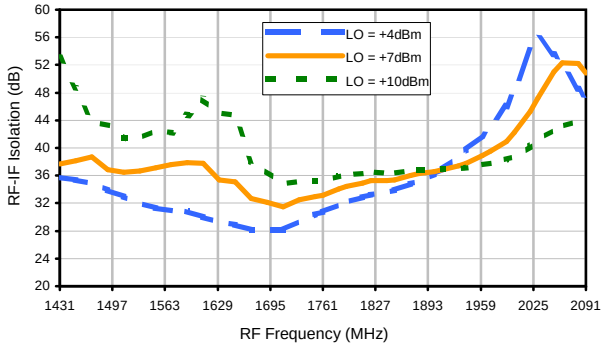
### LO-RF Isolation



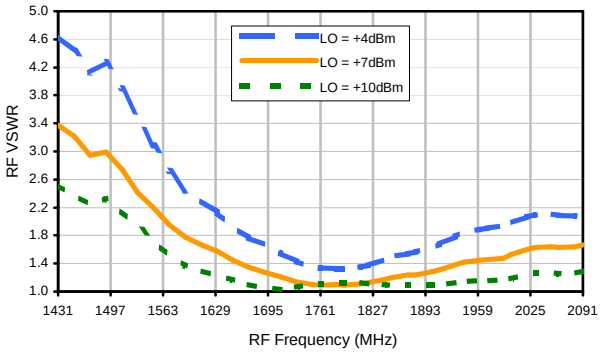

### LO-IF Isolation



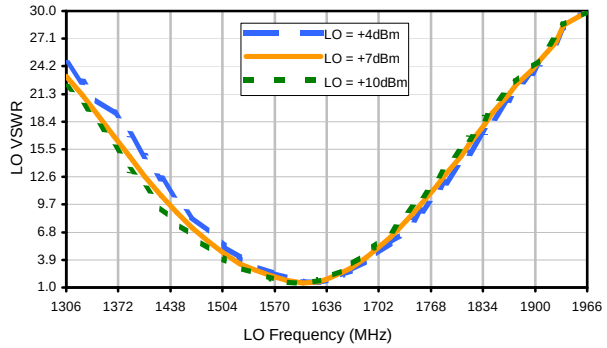

### RF-IF Isolation



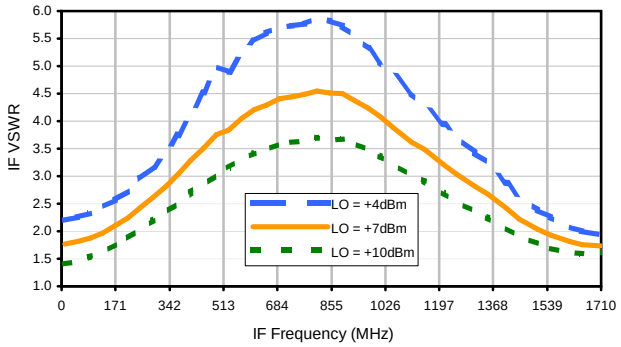

### RF VSWR




### LO VSWR




### IF VSWR







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# Frequency Mixer HJK-ED9468/2

*Harmonics Tables*

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | - | - | 16 | 31 | 37 | 43 | 39 | 39 | 38 | 49 | 66 | 61 |
| 1 | - | 32 | +0 | 36 | 20 | 38 | 28 | 45 | 46 | 54 | 55 | 53 |
| 2 | 60 | 43 | 54 | 53 | 65 | 56 | 54 | 63 | 62 | 63 | 76 | 71 |
| 3 | >90 | 64 | 52 | 64 | 48 | 71 | 54 | 69 | 57 | 77 | 70 | >81 |
| 4 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | 79 | >81 | >81 | >81 | >81 |
| 5 | >90 | >81 | >81 | >81 | >81 | >81 | 81 | >81 | >81 | >81 | >81 | >81 |
| 6 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 |
| 7 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 |
| 8 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 |
| 9 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 |
| 10 | >90 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 | >81 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

## LO HARMONICS ORDER

**Test conditions:** RF IN: 1700 MHz; -1.00 dBm.
LO IN: 1575 MHz; +7.00 dBm
IF OUT: 125 MHz; -8.62 dBm

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | - | - | 24 | 38 | 42 | 54 | 48 | 55 | 50 | 60 | 70 | 68 |
| 1 | - | 31 | +0 | 34 | 21 | 37 | 31 | 43 | 49 | 54 | 60 | 55 |
| 2 | 40 | 33 | 44 | 42 | 54 | 51 | 50 | 58 | 60 | 57 | 86 | 60 |
| 3 | 71 | 48 | 33 | 43 | 30 | 53 | 40 | 58 | 45 | 66 | 61 | 74 |
| 4 | >90 | 90 | 68 | 58 | >91 | 57 | 61 | 62 | 64 | 75 | 74 | 69 |
| 5 | >90 | 83 | 69 | 62 | 50 | 63 | 45 | 64 | 53 | 74 | 57 | 91 |
| 6 | >90 | 80 | 77 | 86 | 81 | 74 | 71 | 66 | 68 | 69 | 73 | 89 |
| 7 | >90 | 87 | >91 | 83 | >91 | 74 | 63 | 78 | 59 | 77 | 64 | 79 |
| 8 | >90 | >91 | 88 | 86 | 83 | 90 | 83 | 85 | 79 | 77 | 74 | 82 |
| 9 | >90 | >91 | 90 | 90 | >91 | 88 | >91 | 80 | 76 | 83 | 72 | 81 |
| 10 | >90 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | 89 | >91 | 89 | 85 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

## LO HARMONICS ORDER

**Test conditions:** RF IN: 1700 MHz; 9.00 dBm.
LO IN: 1575 MHz; +7.00 dBm
IF OUT: 125 MHz; 1.17 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.



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