

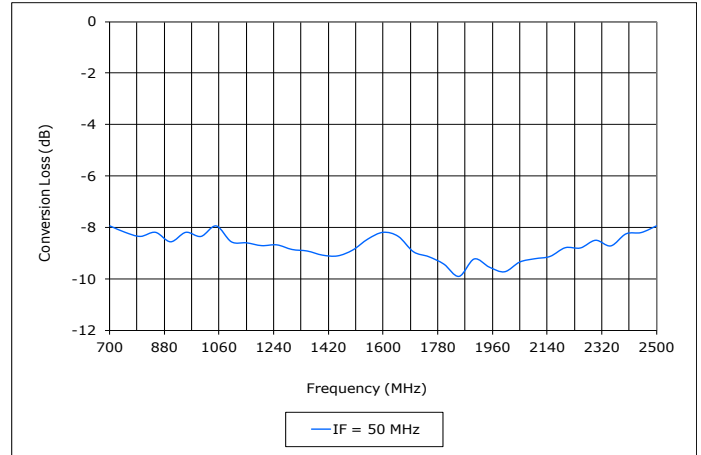
# MESFET HIGH IP<sup>3</sup> MIXER

## SURFACE MOUNT MODEL: SFM-5

### OPTIMIZED BANDWIDTH

#### FEATURES:

- ▶ Wide Bandwidth
- ▶ Surface Mount
- ▶ Lead Free REL-PRO<sup>®</sup> Technology



### SPECIFICATIONS (Rev. D 06/24/15)

|                             |                                |            |          |
|-----------------------------|--------------------------------|------------|----------|
| Frequency (MHz)             | LO                             | RF         | IF       |
|                             | 650 - 2000                     | 700 - 2400 | 50 - 200 |
| Conversion Loss (dB)        | Typ.                           | Max.       |          |
|                             | 10.0                           | 11.8       |          |
| Isolation (dB)              |                                | Typ.       | Min.     |
|                             | LO/RF                          | 25         | 18       |
|                             | LO/IF                          | 20         | 15       |
|                             | RF/IF                          | 20         | 17       |
| LO Power                    | +17 dBm (Nom.)                 |            |          |
| 1 dB Comp. Pt.              | +23 dBm (Typ.)                 |            |          |
| Input IP <sup>3</sup>       | +38 dBm (Typ.)                 |            |          |
| V <sub>dd</sub>             | +5 Volts (Nom.) @ 50 mA (Max.) |            |          |
| Impedance                   | 50 Ohms (Nom.)                 |            |          |
| Operating Temperature Range | -20 to +70 °C                  |            |          |

**Package # 285**

RECOMMENDED PCB LAYOUT

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7301

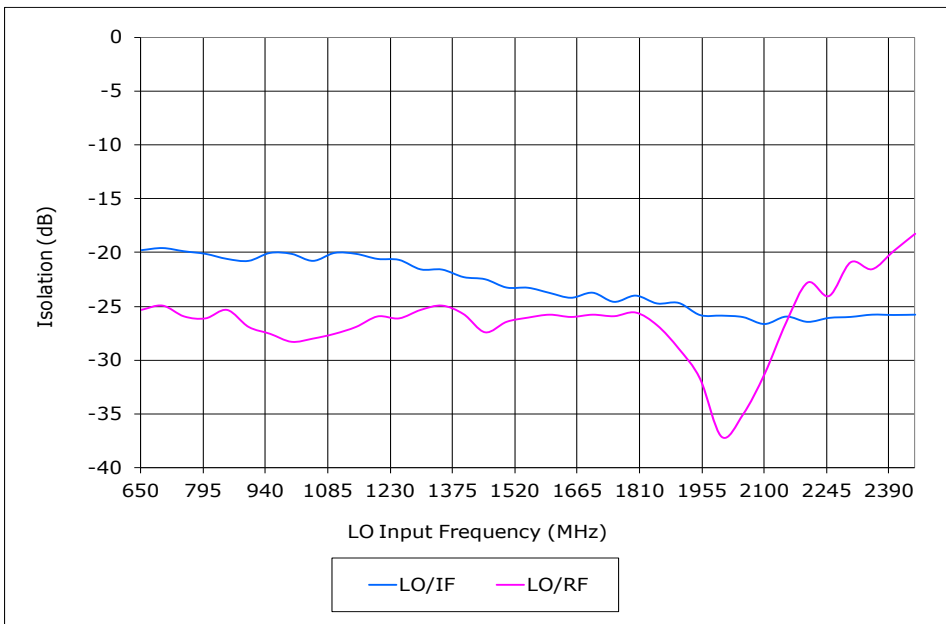
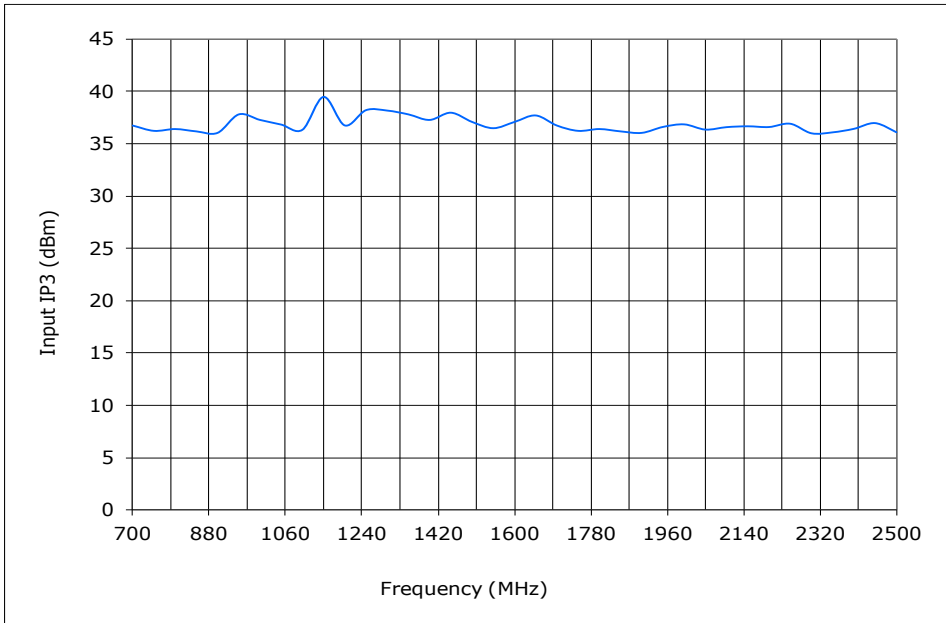
| PORT LOCATION |    |    |                 |            |
|---------------|----|----|-----------------|------------|
| RF            | LO | IF | V <sub>dd</sub> | GND        |
| 2             | 13 | 21 | 10              | All Others |

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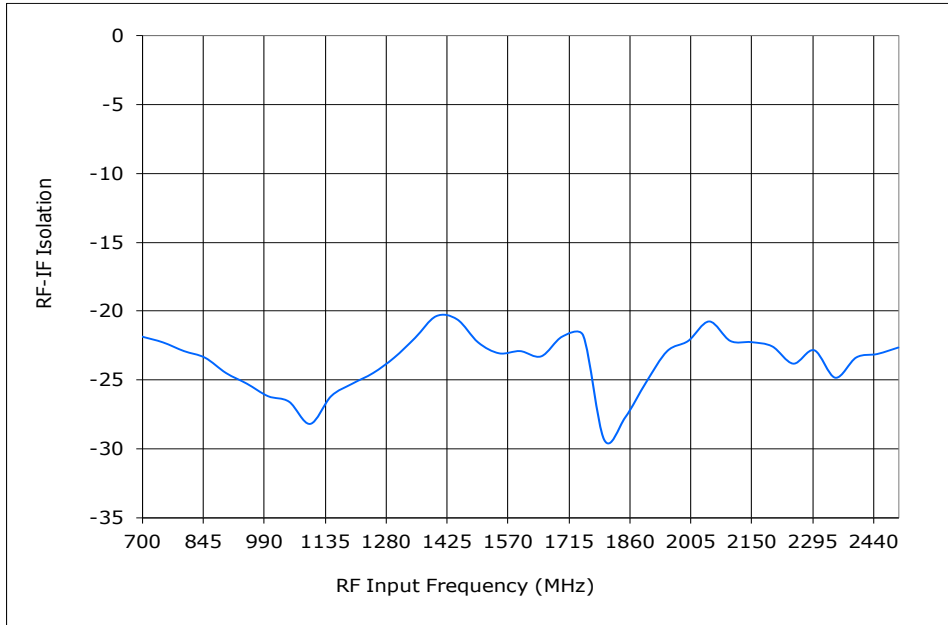
PERFORMANCE PLOTS



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OPTIMIZED BANDWIDTH



PERFORMANCE PLOTS