

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

## SURFACE MOUNT MODEL: SFM-2A-1

### OPTIMIZED BANDWIDTH

#### FEATURES:

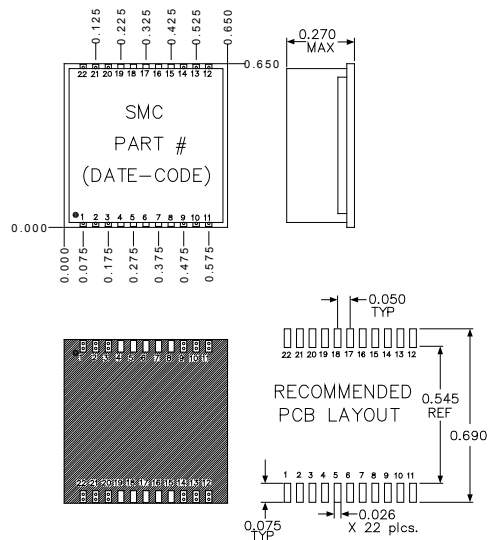
- ▶ High Performance
- ▶ High IP<sup>3</sup>
- ▶ Small Size, Surface Mount
- ▶ RoHS Compliant
- ▶ Lead Free REL-PRO<sup>®</sup> Technology



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

Frequency	LO (MHz)	RF (MHz)	IF (MHz)	
	89 - 116	19 - 41	70 - 96	
Conversion Loss (dB)	Typ.	Max.		
	6.5	8.5		
RF/IF Isolation (dB)	Typ.	Min.		
	30	20		
LO Rejection (dBc)		Typ.	Min.	
		RF	40	25
		IF	25	15
LO Power	0 dBm (Nom.)			
1 dB Comp. Pt.	+23 dBm (Typ.)			
Input IP <sup>3</sup>	+40 dBm (Typ.)			
Vdd	+4.3 to 4.5 Volts @ 80 mA (Max.)			
Impedance	50 Ohms (Nom.)			
Operating Temperature Range	-20 to +70 °C			
<i>Note: Isolation values apply for Sinewave L.O. signals.</i>				

Package # 285



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7301

#### PORT LOCATION

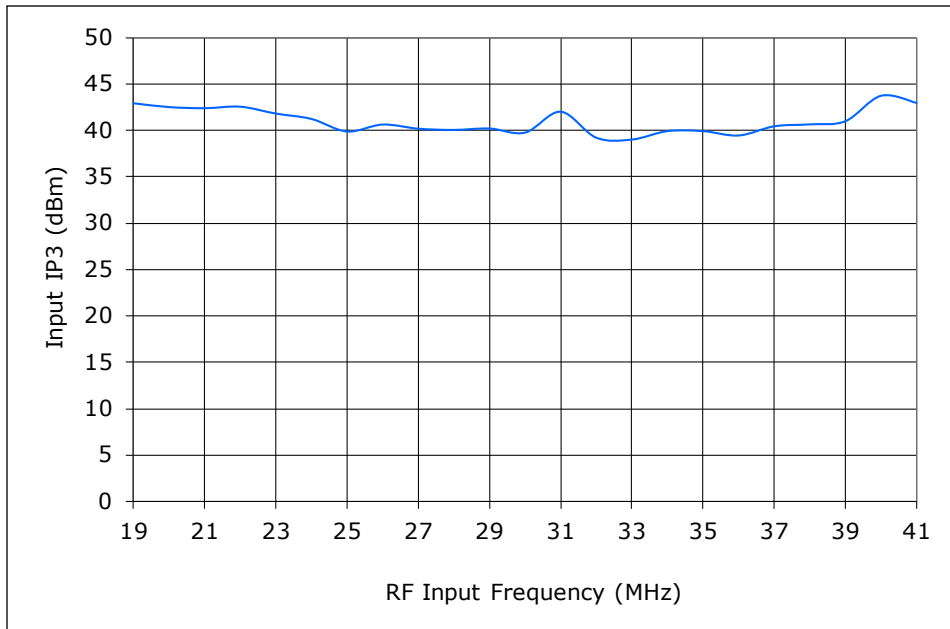
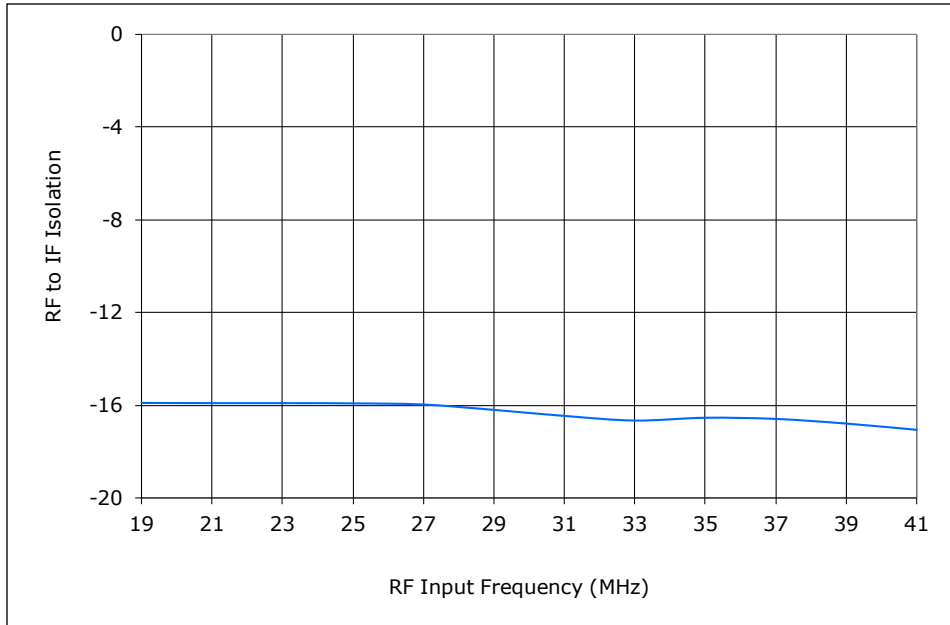
RF	LO	IF	Vdd	GND
21	13	2	10	All Others

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

## SURFACE MOUNT MODEL: SFM-2A-1

### OPTIMIZED BANDWIDTH

# PERFORMANCE PLOTS

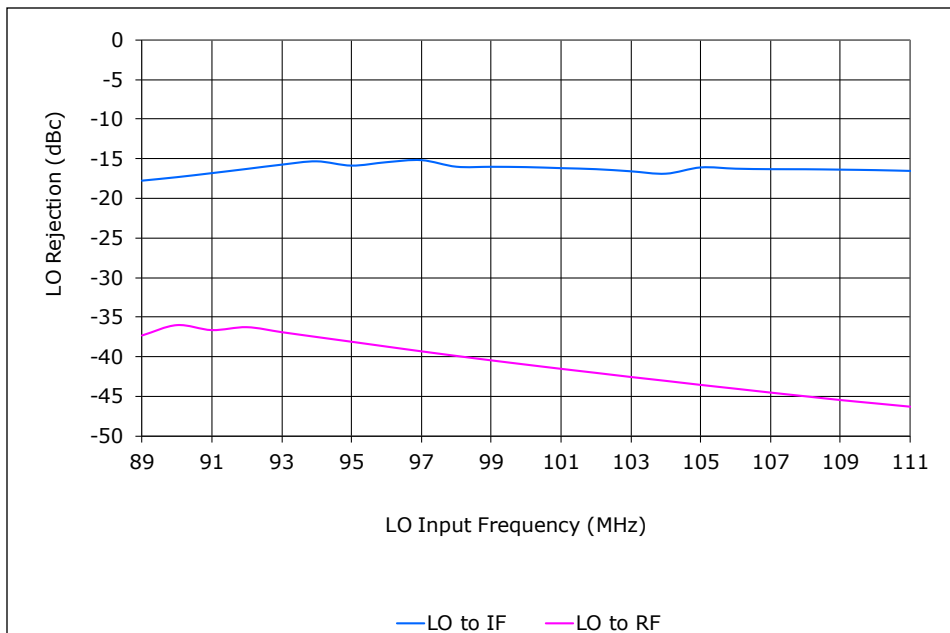
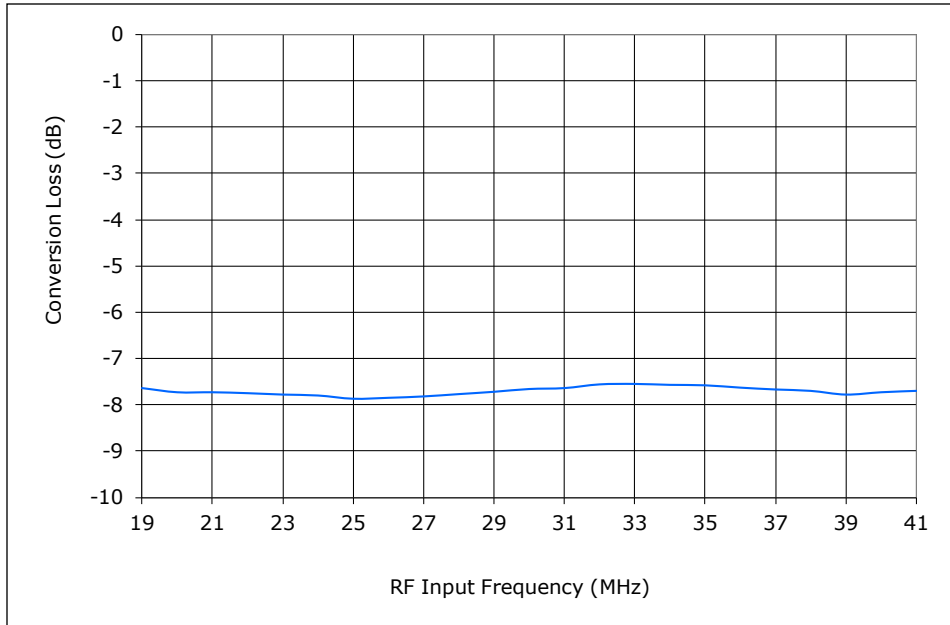


# MESFET HIGH IP<sup>3</sup> MIXER

## SURFACE MOUNT MODEL: SFM-2A-1

### OPTIMIZED BANDWIDTH

PERFORMANCE PLOTS

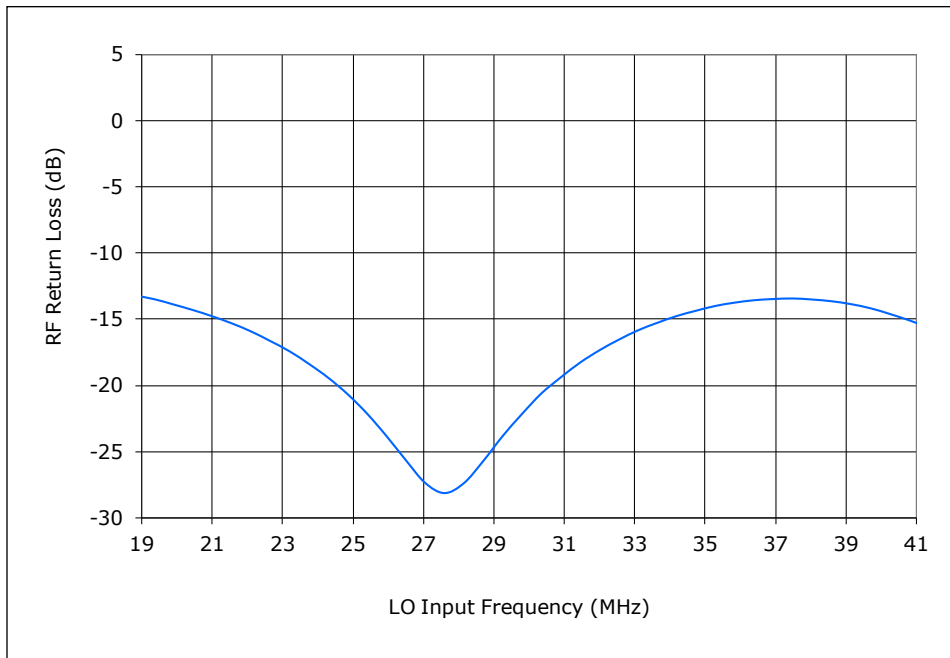
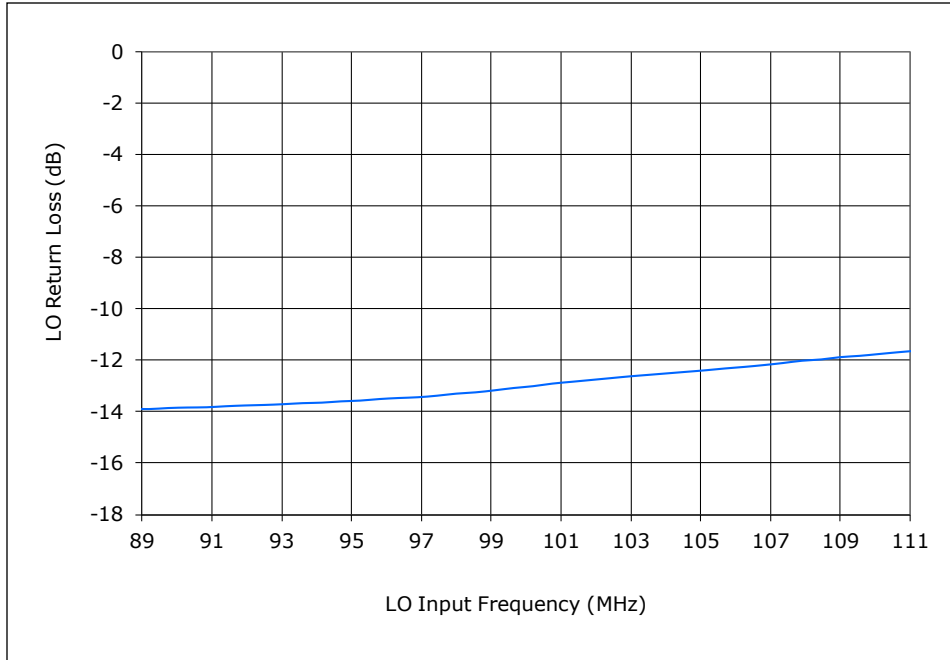


# MESFET HIGH IP<sup>3</sup> MIXER

## SURFACE MOUNT MODEL: SFM-2A-1

### OPTIMIZED BANDWIDTH

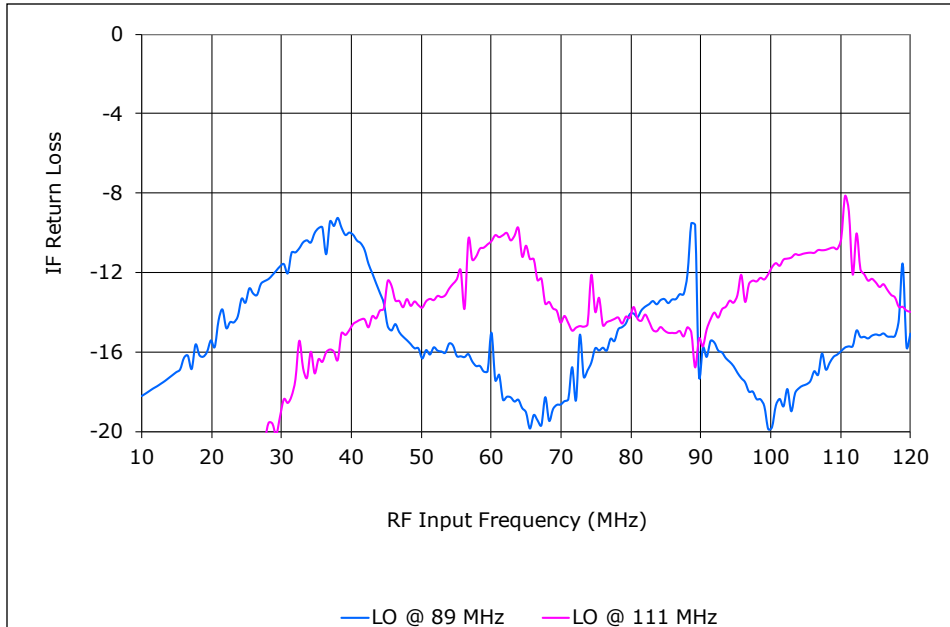
PERFORMANCE PLOTS



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

## SURFACE MOUNT MODEL: SFM-2A-1

OPTIMIZED BANDWIDTH



PERFORMANCE PLOTS