

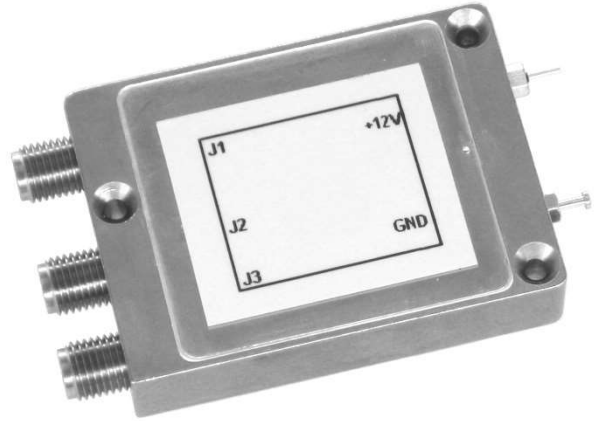
PRODUCT DATA SHEET

RCT0070 Mixer / LO Amplifier

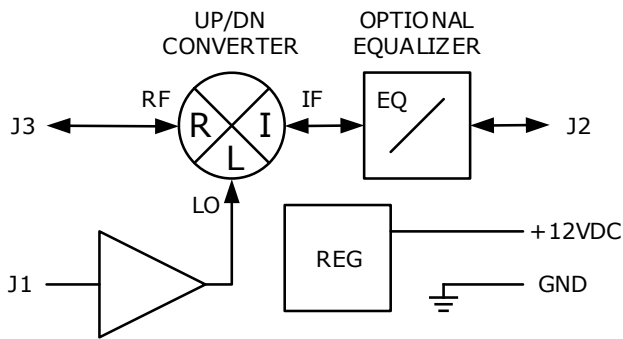
by R. A. Wood Associates

Introduction

The Mixer/LO Amp is a wideband up/down converter with built-in saturated LO AMP. It uses a high-performance and high dynamic range mixer, which enables use in a wide range of applications. The small, low cost Mixer/LO Amp allows the user to tailor external pre and post filter selection to suit the specific needs associated with up or down frequency band conversion. The optional built-in IF equalizer can be customized per user specification (including no equalization) during manufacturing. These products are built-to-order.

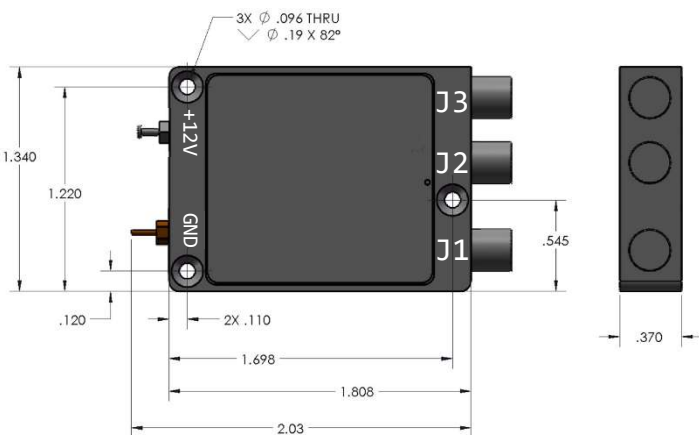


Specification



Mixer / LO Amp Performance				
	MIN	TYP	MAX	UNITS
RF FREQUENCY (J3)	5	-	20	GHz
IF FREQUENCY (J2)	DC	-	4	GHz
LO FREQUENCY (J1)	5	-	20	GHz
LO POWER INPUT	-6	0	+3	dBm
CONVERSION LOSS	8	9	12.5	dB
INPUT 1dB COMP		14		dBm
LO LEAKAGE		-4		dBm
R-I ISOLATION		24		dB
VOLTAGE	+6	+12	15 (TBD)	VDC
AMPERAGE	180	265	345	mA

*All Performance Data @25C Unless Otherwise Noted



MAX RATINGS	MAX	UNITS
SUPPLY VOLTAGE (E1)	20	VDC
RF/LO INPUT LEVEL (J1/J3)	20	dBm
RF DC CURRENT (J3)	15	mA
IF DC CURRENT (J2)*	30	mA
OPERATING TEMP	-40 TO 85(TBD)	°C
STORAGE TEMP	-55 TO 150	°C

**Blocking Cap Recommended if DC Volt on Line

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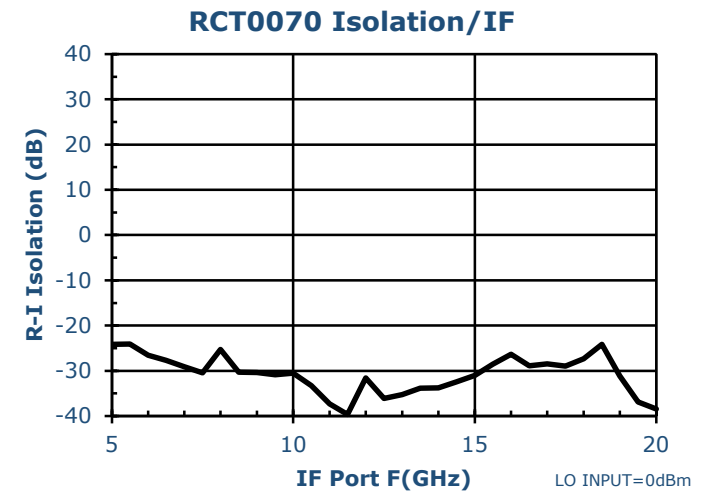
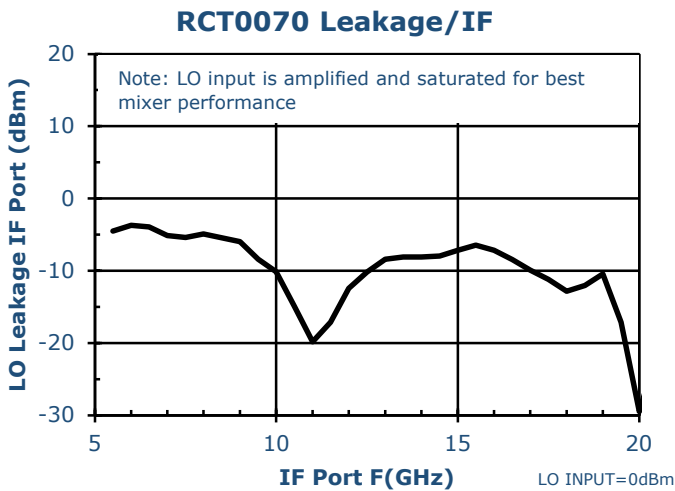
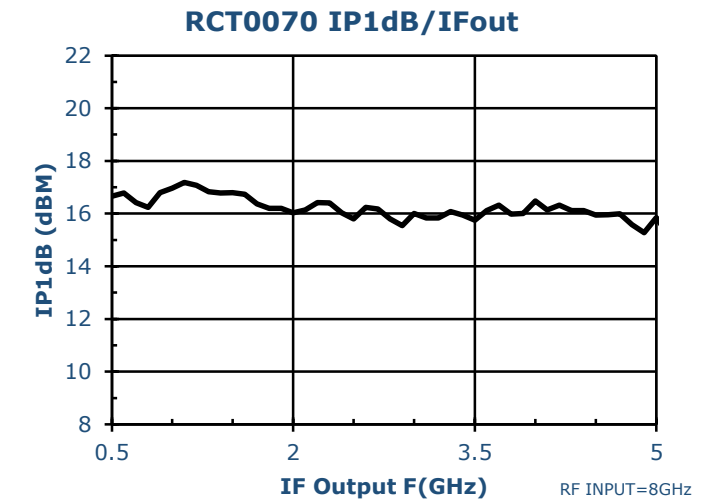
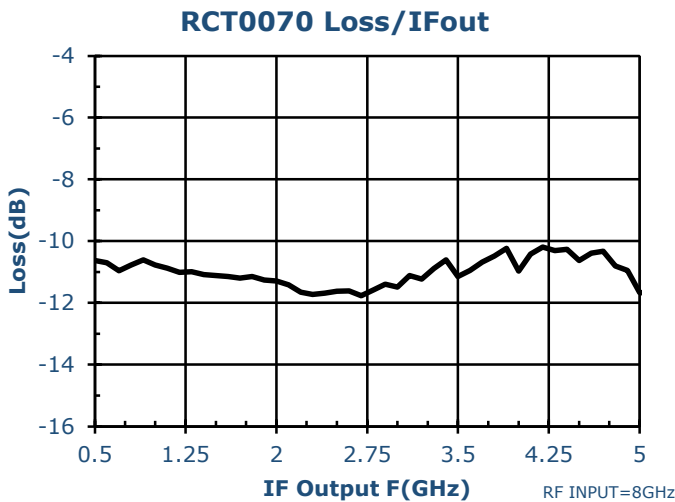
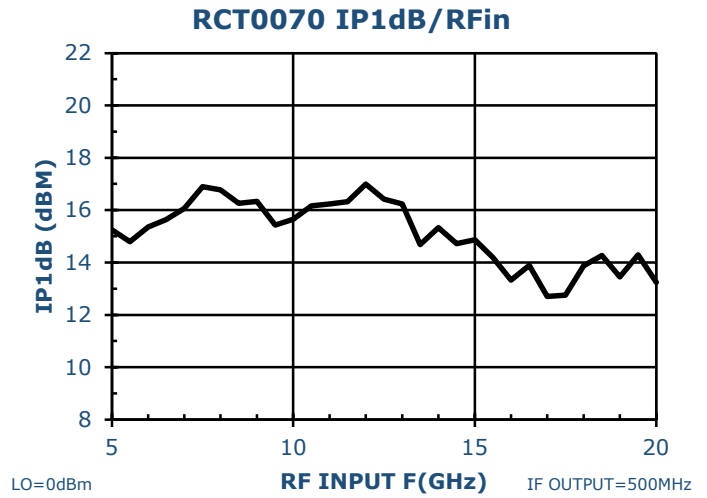
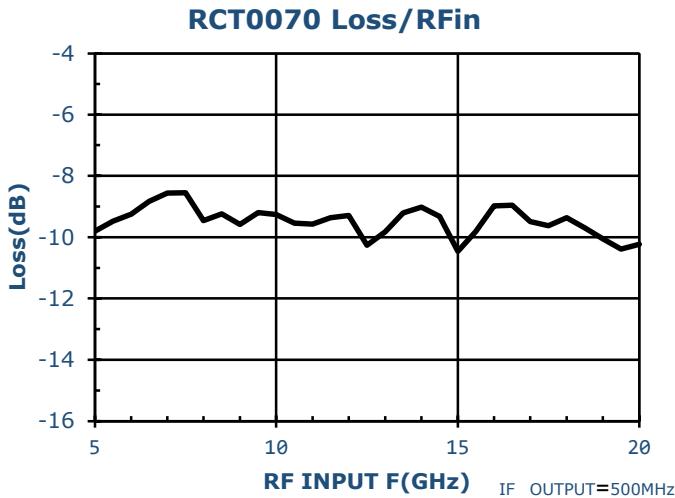
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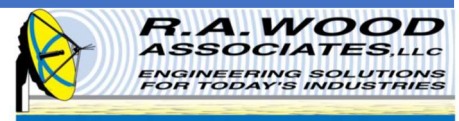


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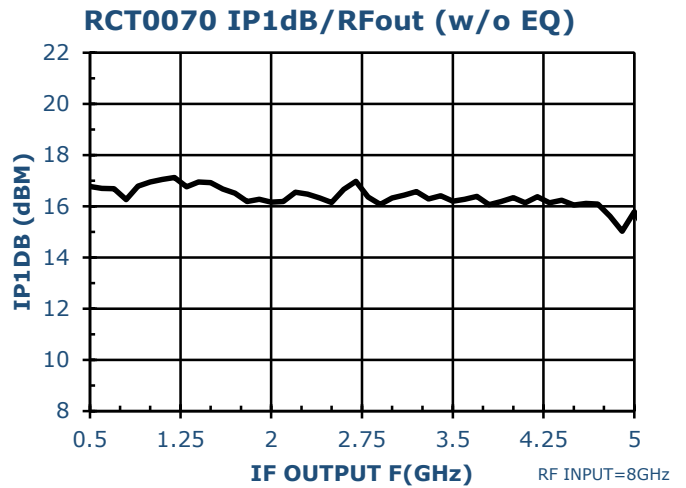
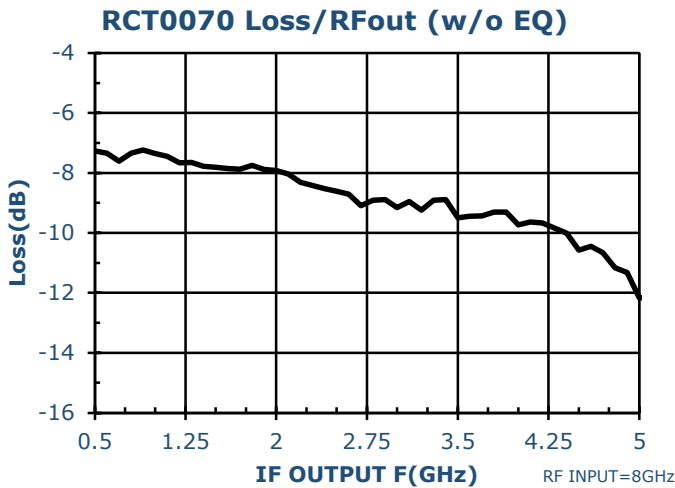
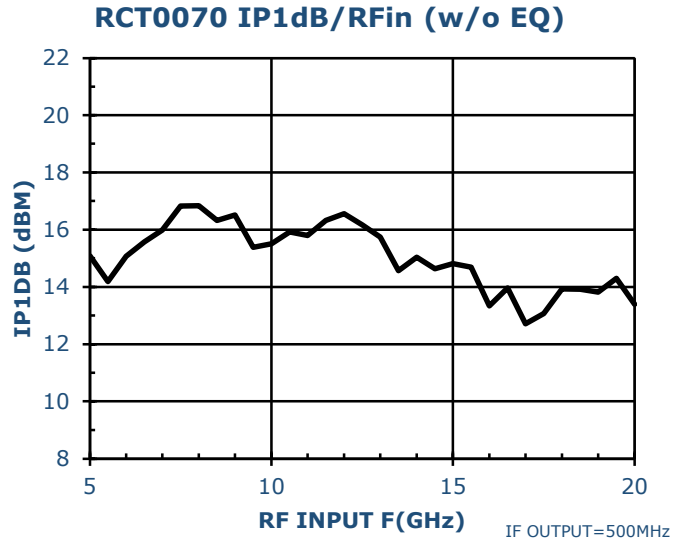
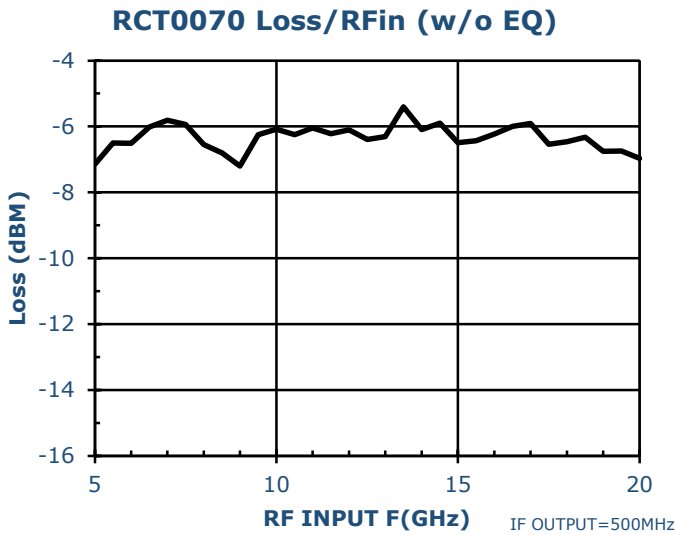
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The performance of the Mixer / LO Amp *without* equalized IF is shown below.



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