



# HMC7950LS6 Data Sheet Limit Change

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# HMC7950LS6 Data Sheet Limit Change

## 2 GHz to 5 GHz Frequency Range

### New Rev C

### Existing Rev B

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			2		5	GHz
GAIN			13.5	15.5		dB
Gain Variation Over Temperature				0.04		dB/°C
RETURN LOSS						
Input				12		dB
Output				13		dB
OUTPUT						
Output Power for 1 dB Compression	P1dB		13	16.5		dBm
Saturated Output Power	P <sub>SAT</sub>			20.5		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		26.5		dBm
<b>NOISE FIGURE</b>	<b>NF</b>			<b>3.0</b>	<b>4.5</b>	dB

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			2		5	GHz
GAIN			13.5	15.5		dB
Gain Variation Over Temperature				0.04		dB/°C
RETURN LOSS						
Input				12		dB
Output				13		dB
OUTPUT						
Output Power for 1 dB Compression	P1dB		13	16.5		dBm
Saturated Output Power	P <sub>SAT</sub>			20.5		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		26.5		dBm
<b>NOISE FIGURE</b>	<b>NF</b>			<b>3.0</b>		dB

# HMC7950LS6 Data Sheet Limit Change

## 5 GHz to 18 GHz Frequency Range

### Existing Rev B

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			5		18	GHz
GAIN			13.3	15		dB
Gain Variation Over Temperature				0.007		dB/°C
RETURN LOSS						
Input				18		dB
Output				14		dB
OUTPUT						
Output Power for 1 dB Compression	P <sub>1dB</sub>		13	16		dBm
Saturated Output Power	P <sub>SAT</sub>			19.5		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		26		dBm
<b>NOISE FIGURE</b>	NF			<b>2.0</b>	<b>3.5</b>	dB

### New Rev C

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			5		18	GHz
GAIN			13.3	15		dB
Gain Variation Over Temperature				0.007		dB/°C
RETURN LOSS						
Input				18		dB
Output				14		dB
OUTPUT						
Output Power for 1 dB Compression	P <sub>1dB</sub>		13	16		dBm
Saturated Output Power	P <sub>SAT</sub>			19.5		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		26		dBm
<b>NOISE FIGURE</b>	NF			<b>2.0</b>		dB

# HMC7950LS6 Data Sheet Limit Change

## 18 GHZ TO 28 GHZ FREQUENCY RANGE

### Existing Rev B

### New Rev C

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			18		28	GHz
GAIN			13	16.5		dB
Gain Variation over Temperature				0.01 2		dB/°C
RETURN LOSS						
Input				19		dB
Output				16		dB
OUTPUT						
Output Power for 1 dB Compression	P1dB		10	14.5		dBm
Saturated Output Power	P <sub>SAT</sub>			17		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		24		dBm
<b>NOISE FIGURE</b>	NF			<b>2.8</b>	<b>5</b>	dB

Parameter	Symbol	Test Conditions/Comments	Min	Typ	Max	Unit
FREQUENCY RANGE			18		28	GHz
GAIN			13	16.5		dB
Gain Variation over Temperature				0.012		dB/°C
RETURN LOSS						
Input				19		dB
Output				16		dB
OUTPUT						
Output Power for 1 dB Compression	P1dB		10	14.5		dBm
Saturated Output Power	P <sub>SAT</sub>			17		dBm
Output Third-Order Intercept	IP3	Measurement taken at P <sub>OUT</sub> /tone = 4 dBm		24		dBm
<b>NOISE FIGURE</b>	NF			<b>2.8</b>		dB

# AHEAD OF WHAT'S POSSIBLE

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