HMC997 Data Sheet Limit Change Comparison

HMC997 Data Sheet Limit Change

AMPLIFIER - SMT

Existing REV v02.0514

ANALOG DEVICES

RoHS✓ EARTH FRIENDLY

HMC997LC4

v02.0514

VARIABLE GAIN AMPLIFIER 17 - 27 GHz

Absolute Maximum Ratings

Drain Bias Voltage (Vdd1, 2, 3)	+5.5V
Gate Bias Voltage (Vgg1, 2)	-3 to 0V
Gain Control Voltage (Vctrl)	-5 to 0V
RF Power Input (RFIN)	+5 dBm
Channel Temperature	175 °C
Continuous Pdiss (T = 85 °C) (derate 10.2 mW/°C above 85 °C) [1]	0.92 W
Thermal Resistance (Channel to ground paddle)	97.6 °C/W
Storage Temperature	-65 to +150 °C
Operating Temperature	-40 to +85 °C
ESD Sensitivity (HBM)	Class 0 Passed 100V

Bias Voltage

Vdd1,2,3 (V)	Idd Total (mA)
+5V	170
Vgg1,2 (V)	Igg Total (mA)
0V to -2V	<0.1 mA

ELECTROSTATIC SENSITIVE DEVICE
OBSERVE HANDLING PRECAUTIONS

New REV v03.0424

ANALOG DEVICES

RoHS✓ EARTH FRIENDLY

HMC997LC4

v03.0424

VARIABLE GAIN AMPLIFIER 17 - 27 GHz

Absolute Maximum Ratings

Drain Bias Voltage (Vdd1, 2, 3)	+5.5V
Gate Bias Voltage (Vgg1, 2)	-3 to 0V
Gain Control Voltage (Vctrl)	-5 to 0V
RF Power Input (RFIN)	+20 dBm
Channel Temperature	175 °C
Continuous Pdiss (T = 85 °C) (derate 10.2 mW/°C above 85 °C) [1]	0.92 W
Thermal Resistance (Channel to ground paddle)	97.6 °C/W
Storage Temperature	-65 to +150 °C
Operating Temperature	-40 to +85 °C
ESD Sensitivity (HBM)	Class 0 Passed 100V

Bias Voltage

Vdd1,2,3 (V)	Idd Total (mA)
+5V	170
Vgg1,2 (V)	Igg Total (mA)
0V to -2V	<0.1 mA

ELECTROSTATIC SENSITIVE DEVICE
OBSERVE HANDLING PRECAUTIONS

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