

Data Sheet

ADPA7009-2

ABSOLUTE MAXIMUM RATINGS

Table 4. Absolute Maximum Ratings

Parameter	Rating
V_{DD}	6.0 V
V_{GG}	-1.6 V to 0 V
RF Input Power (RFIN)	20 dBm
Continuous Power Dissipation (P_{DISS}), $T_{CASE} = 85^{\circ}\text{C}$ (Derate 13.6 mW/ $^{\circ}\text{C}$ above 85°C)	6.6 W
Temperature	
Maximum Channel	175 $^{\circ}\text{C}$
Quiescent Channel ($T_{CASE} = 85^{\circ}\text{C}$, $V_{DD} = 5\text{ V}$) I_{DQ} = 850 mA, $P_{IN} = \text{Off}$	143 $^{\circ}\text{C}$
Storage Range	-55 $^{\circ}\text{C}$ to +150 $^{\circ}\text{C}$
Operating Range	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product reliability.

THERMAL RESISTANCE

Thermal performance is directly linked to system design and operating environment. Careful attention to PCB thermal design is required.

ELECTROSTATIC DISCHARGE (ESD) RATINGS

The following ESD information is provided for handling of ESD-sensitive devices in an ESD-protected area only.

Human Body Model (HBM) per ANSI/ESDA/JEDEC JS-001.

ESD Ratings for ADPA7009-2

Table 6. ADPA7009-2, 24-Terminal LGA_CAV

ESD Model	Withstand Threshold (V)	Class
HBM	± 500	1B

ESD CAUTION



ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.