

ADPA7002 Die and Data Sheet Revision

ADPA7002 Specification Changes

► New Specifications

► ADPA7002CHIP

► OLD SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

Table 3.

Parameter	Rating
V_{DDx}	6.0 V
V_{GG1}	-1.6 V to 0 V
RF Input Power (RFIN)	25 dBm
Continuous Power Dissipation (P_{DISS}), $T_A = 85^\circ\text{C}$ (Derate 75.2 mW/°C above 85°C)	6.77 W
Temperature	
Storage Range	-65°C to +150°C
Operating Range	-55°C to +85°C
Nominal Junction ($T_A = 85^\circ\text{C}$, $V_{DD} = 5\text{ V}$, $I_{DQ} = 600\text{ mA}$)	124.9°C
Junction to Maintain 1,000,000 Hour Mean Time to Failure (MTTF)	175°C
Electrostatic Discharge (ESD) Sensitivity	
Human Body Model (HBM)	Class 1A (passed 500 V)

Table 3.

Parameter	Rating
V_{DDx}	6.0 V
V_{GG1}	-1.6 V to 0 V
RF Input Power (RFIN)	25 dBm
Continuous Power Dissipation (P_{DISS}), $T_A = 85^\circ\text{C}$ (Derate 75.2 mW/°C above 85°C)	6.77 W
Temperature	
Storage Range	-65°C to +150°C
Operating Range	-55°C to +85°C
Nominal Junction ($T_A = 85^\circ\text{C}$, $V_{DD} = 5\text{ V}$, $I_{DQ} =$ 600 mA)	124.9°C
Maximum Channel Temperature	175°C
Electrostatic Discharge (ESD) Sensitivity	
Human Body Model (HBM)	Class 0A (passed 125 V)

Stresses not on above those listed under Absolute Maximum Ratings

► New Specifications

► ADPA7002AEHZ

► OLD SPECIFICATIONS

Table 5.

Parameter	Rating
V_{DDX}	6.0 V
V_{GG1}	-1.6 V to 0 V
RF Input Power (RFIN)	25 dBm
Continuous Power Dissipation (P_{DISS}), $T_A = 85^\circ\text{C}$ (Derate 69 mW/ $^\circ\text{C}$ above 85 $^\circ\text{C}$)	6.21 W
Temperature	
Storage Range	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
Operating Range	-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Nominal Junction ($T_A = 85^\circ\text{C}$, $V_{DD} = 5\text{ V}$, $I_{DQ} = 700\text{ mA}$)	135.75 $^\circ\text{C}$
Junction to Maintain 1,000,000 Hour Mean Time to Failure (MTTF)	175 $^\circ\text{C}$
Electrostatic Discharge (ESD) Sensitivity	
Human Body Model (HBM)	Class 1A (passed 500 V)

Table 5.

Parameter	Rating
V_{DDX}	6.0 V
V_{GG1}	-1.6 V to 0 V
RF Input Power (RFIN)	25 dBm
Continuous Power Dissipation (P_{DISS}), $T_A = 85^\circ\text{C}$ (Derate 69 mW/ $^\circ\text{C}$ above 85 $^\circ\text{C}$)	6.21 W
Temperature	
Storage Range	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
Operating Range	-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Nominal Junction ($T_A = 85^\circ\text{C}$, $V_{DD} = 5\text{ V}$, $I_{DQ} = 700\text{ mA}$)	135.75 $^\circ\text{C}$
Maximum Channel Temperature	175 $^\circ\text{C}$
Electrostatic Discharge (ESD) Sensitivity	
Human Body Model (HBM)	Class 0A (passed 125V V)