

# Qualification Results Summary for ADuM2200/ADuM2201 Die Revision and Data Sheet Change (SOIC\_IC)

QUALIFICATION PLAN / STATUS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
High Temperature Operating Life (HTOL)*	JEDEC <i>JESD22-A108</i>	<b>9x77</b>	<b>Pass</b>
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	<b>9x77</b>	<b>Pass</b>
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	<b>6x77</b>	<b>Pass</b>
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	<b>6x77</b>	<b>Pass</b>
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	<b>9x77</b>	<b>Pass</b>
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	<b>2x30</b>	<b>Pass</b>
Latch-Up	JEDEC <i>JESD78</i>	<b>1x9</b>	<b>Pass</b> ±200mA @ +8.25V
Electrostatic Discharge <i>Human Body Model</i>	ESDA/JEDEC <i>JS-001</i>	<b>1x18</b>	<b>Pass</b> ±4000V
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	<b>1x18</b>	<b>Pass</b> ±1250V

\*Preconditioned per JEDEC/IPC J-STD-020

# Qualification Results Summary for ADuM2200/ADuM2201 Die Revision and Data Sheet Change (SOIC\_W)

QUALIFICATION PLAN / STATUS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
High Temperature Operating Life (HTOL)*	JEDEC <i>JESD22-A108</i>	<b>9x77</b>	<b>Pass</b>
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	<b>5x32 4x77</b>	<b>Pass</b>
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	<b>9x77</b>	<b>Pass</b>
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	<b>9x77</b>	<b>Pass</b>
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	<b>7x77 2x45</b>	<b>Pass</b>
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	<b>1x30</b>	<b>Pass</b>
Latch-Up	JEDEC <i>JESD78</i>	<b>1x9</b>	<b>Pass ±200mA @ +8.25V</b>
Electrostatic Discharge <i>Human Body Model</i>	ESDA/JEDEC <i>JS-001</i>	<b>1x18</b>	<b>Pass ±4000V</b>
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	<b>1x18</b>	<b>Pass ±1000V</b>

\*Preconditioned per JEDEC/IPC J-STD-020

Yellow denotes an increase in specification value

### Current Data Sheet IDD Limits

ADUM2200, 5.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.3	1.7	mA
I <sub>DD2</sub> - 1Mbps		1.0	1.6	mA
I <sub>DD1</sub> - 10Mbps		3.5	4.6	mA
I <sub>DD2</sub> - 10Mbps		1.7	2.8	mA

ADUM2200, 3.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.8	1.3	mA
I <sub>DD2</sub> - 1Mbps		0.7	1.0	mA
I <sub>DD1</sub> - 10Mbps		2.0	3.2	mA
I <sub>DD2</sub> - 10Mbps		1.1	1.7	mA

ADUM2200, 5.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.3	1.7	mA
I <sub>DD2</sub> - 1Mbps		0.7	1.0	mA
I <sub>DD1</sub> - 10Mbps		3.5	4.6	mA
I <sub>DD2</sub> - 10Mbps		1.1	1.7	mA

ADUM2200, 3.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.8	1.3	mA
I <sub>DD2</sub> - 1Mbps		1.0	1.6	mA
I <sub>DD1</sub> - 10Mbps		2.0	3.2	mA
I <sub>DD2</sub> - 10Mbps		1.7	2.8	mA

### Revised Data Sheet IDD Limits

ADUM2200, 5.0V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.3	1.8	mA
I <sub>DD2</sub> - 1Mbps		1.0	1.6	mA
I <sub>DD1</sub> - 10Mbps		3.5	4.6	mA
I <sub>DD2</sub> - 10Mbps		2.0	2.8	mA

ADUM2200, 3.3V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.8	1.3	mA
I <sub>DD2</sub> - 1Mbps		0.7	1.0	mA
I <sub>DD1</sub> - 10Mbps		2.2	3.2	mA
I <sub>DD2</sub> - 10Mbps		1.3	1.7	mA

ADUM2200, 5.0V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.3	1.8	mA
I <sub>DD2</sub> - 1Mbps		0.7	1.0	mA
I <sub>DD1</sub> - 10Mbps		3.5	4.6	mA
I <sub>DD2</sub> - 10Mbps		1.3	1.7	mA

ADUM2200, 3.3V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.8	1.3	mA
I <sub>DD2</sub> - 1Mbps		1.0	1.6	mA
I <sub>DD1</sub> - 10Mbps		2.2	3.2	mA
I <sub>DD2</sub> - 10Mbps		2.0	2.8	mA

Yellow denotes an increase in specification value

### Current Data Sheet IDD Limits

ADUM2201, 5.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.1	1.5	mA
I <sub>DD2</sub> - 1Mbps		1.3	1.8	mA
I <sub>DD1</sub> - 10Mbps		2.6	3.4	mA
I <sub>DD2</sub> - 10Mbps		3.1	4.0	mA

ADUM2201, 3.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.7	1.3	mA
I <sub>DD2</sub> - 1Mbps		0.8	1.6	mA
I <sub>DD1</sub> - 10Mbps		1.5	2.1	mA
I <sub>DD2</sub> - 10Mbps		1.9	2.4	mA

ADUM2201, 5.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.1	1.5	mA
I <sub>DD2</sub> - 1Mbps		0.8	1.6	mA
I <sub>DD1</sub> - 10Mbps		2.6	3.4	mA
I <sub>DD2</sub> - 10Mbps		1.9	2.4	mA

ADUM2201, 3.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.7	1.3	mA
I <sub>DD2</sub> - 1Mbps		1.3	1.8	mA
I <sub>DD1</sub> - 10Mbps		1.5	2.1	mA
I <sub>DD2</sub> - 10Mbps		3.1	4.0	mA

### Revised Data Sheet IDD Limits

ADUM2201, 5.0V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.1	1.6	mA
I <sub>DD2</sub> - 1Mbps		1.3	1.9	mA
I <sub>DD1</sub> - 10Mbps		3.1	4.2	mA
I <sub>DD2</sub> - 10Mbps		3.1	4.0	mA

ADUM2201, 3.3V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.7	1.3	mA
I <sub>DD2</sub> - 1Mbps		0.8	1.6	mA
I <sub>DD1</sub> - 10Mbps		1.9	2.5	mA
I <sub>DD2</sub> - 10Mbps		1.9	2.5	mA

ADUM2201, 5.0V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		1.1	1.6	mA
I <sub>DD2</sub> - 1Mbps		0.8	1.6	mA
I <sub>DD1</sub> - 10Mbps		3.1	4.2	mA
I <sub>DD2</sub> - 10Mbps		1.9	2.5	mA

ADUM2201, 3.3V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I <sub>DD1</sub> - 1Mbps		0.7	1.3	mA
I <sub>DD2</sub> - 1Mbps		1.3	1.9	mA
I <sub>DD1</sub> - 10Mbps		1.9	2.5	mA
I <sub>DD2</sub> - 10Mbps		3.1	4	mA