

Qualification Results Summary for ADuM2210/ADuM2211 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>	9x77	Pass
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	9x77	Pass
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	6x77	Pass
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	6x77	Pass
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	9x45	Pass
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	3x30	Pass
Latch-Up	JEDEC <i>JESD78</i>	1x9	Pass ±200mA @ +8.25V
Electrostatic Discharge <i>Human Body Model</i>	ESDA/JEDEC <i>JS-001</i>	1x18	Pass ±4000V
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	1x18	Pass ±1000V

*Preconditioned per JEDEC/IPC J-STD-020

Qualification Results Summary for ADuM2210/ADuM2211 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>	9x77	Pass
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	5x32 4x77	Pass
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	8x77 1x45	Pass
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	9x77	Pass
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	3x45 6x77	Pass
Latch-Up	JEDEC <i>JESD78</i>	1x9	Pass ±200mA @ +8.25V
Electrostatic Discharge <i>Human Body Model</i>	ESDA/JEDEC <i>JS-001</i>	1x18	Pass ±4000V
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	1x18	Pass ±1250V

*Preconditioned per JEDEC/IPC J-STD-020

Yellow denotes an increase in specification

Current Data Sheet IDD Limits

ADUM2210, 5.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		1.7	2.8	mA

ADUM2210, 3.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.1	1.7	mA

ADUM2210, 5.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		1.1	1.7	mA

ADUM2210, 3.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.7	2.8	mA

Revised Data Sheet IDD Limits

ADUM2210, 5.0V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		3.5	4.8	mA
I _{DD2} - 10Mbps		1.7	2.8	mA

ADUM2210, 3.3V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.1	1.9	mA

ADUM2210, 5.0V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		3.5	4.8	mA
I _{DD2} - 10Mbps		1.1	1.9	mA

ADUM2210, 3.3V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.7	2.8	mA

Die revision does not effect the IDD performance at 3.3V/5.0V

Yellow denotes an increase in specification value

Current Data Sheet IDD Limits

ADUM2211, 5.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.1	1.5	mA
I _{DD2} - 1Mbps		1.3	1.8	mA
I _{DD1} - 10Mbps		2.6	3.4	mA
I _{DD2} - 10Mbps		3.1	4.0	mA

ADUM2211, 3.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.7	1.3	mA
I _{DD2} - 1Mbps		0.8	1.6	mA
I _{DD1} - 10Mbps		1.5	2.1	mA
I _{DD2} - 10Mbps		1.9	2.4	mA

ADUM2211, 5.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.1	1.5	mA
I _{DD2} - 1Mbps		0.8	1.6	mA
I _{DD1} - 10Mbps		2.6	3.4	mA
I _{DD2} - 10Mbps		1.9	2.4	mA

ADUM2211, 3.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.7	1.3	mA
I _{DD2} - 1Mbps		1.3	1.8	mA
I _{DD1} - 10Mbps		1.5	2.1	mA
I _{DD2} - 10Mbps		3.1	4.0	mA

Revised Data Sheet IDD Limits

ADUM2211, 5.0V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.1	1.5	mA
I _{DD2} - 1Mbps		1.3	1.8	mA
I _{DD1} - 10Mbps		2.6	4.0	mA
I _{DD2} - 10Mbps		3.1	4.1	mA

ADUM2211, 3.3V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.7	1.3	mA
I _{DD2} - 1Mbps		0.8	1.6	mA
I _{DD1} - 10Mbps		1.5	2.6	mA
I _{DD2} - 10Mbps		1.9	2.5	mA

ADUM2211, 5.0V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.1	1.5	mA
I _{DD2} - 1Mbps		0.8	1.6	mA
I _{DD1} - 10Mbps		2.6	4.0	mA
I _{DD2} - 10Mbps		1.9	2.5	mA

ADUM2211, 3.3V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.7	1.3	mA
I _{DD2} - 1Mbps		1.3	1.8	mA
I _{DD1} - 10Mbps		1.5	2.6	mA
I _{DD2} - 10Mbps		3.1	4.1	mA