C28SOI_IO_EXT_CSF_COMPENSATION1V8_LR_EG Databook

September 2016

COMPENSATION_EXT_1V8

Cell Description

COMPENSATION_EXT_1V8

- The cell has ”dont_use” attribute set in the Synopsys STF.
- The cell has ”dont_touch” attribute set in the Synopsys STF.

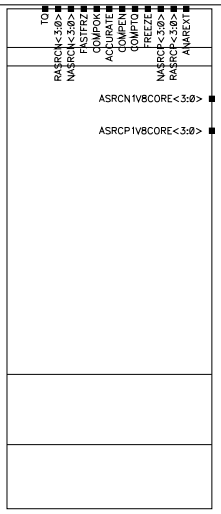
Physical Dimensions

Area(um2) : 30872.000

Glossary

Tr : Input Transition time
C : Output (capacitive) load
R : Rising edge
F : Falling edge

Logical Symbol



Cell Capacitance

Parameter	Value(pF)	
	best 0.90 -40	**worst 0.90 125**
ACCURATE Input Cap.	0.0083	0.0083
ANAREXT Input Cap.	0.0100	0.0100
ANAREXT Max Load	10000.000	10000.000
ASRCN1V8CORE[0] Input Cap.	0.0100	0.0100

ASRCN1V8CORE[0] Max Load	10000.000	10000.000
ASRCN1V8CORE[1] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[1] Max Load	10000.000	10000.000
ASRCN1V8CORE[2] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[2] Max Load	10000.000	10000.000
ASRCN1V8CORE[3] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[3] Max Load	10000.000	10000.000
ASRCP1V8CORE[0] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[0] Max Load	10000.000	10000.000
ASRCP1V8CORE[1] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[1] Max Load	10000.000	10000.000
ASRCP1V8CORE[2] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[2] Max Load	10000.000	10000.000
ASRCP1V8CORE[3] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[3] Max Load	10000.000	10000.000
COMPEN Input Cap.	0.0095	0.0095
COMPOK Max Load	0.200	0.200
COMPTQ Input Cap.	0.0120	0.0120
FASTFRZ Input Cap.	0.0680	0.0680
FREEZE Input Cap.	0.0076	0.0076
NASRCN[0] Input Cap.	0.0000	0.0000
NASRCN[0] Max Load	0.200	0.200
NASRCN[1] Input Cap.	0.0000	0.0000
NASRCN[1] Max Load	0.200	0.200
NASRCN[2] Input Cap.	0.0000	0.0000
NASRCN[2] Max Load	0.200	0.200
NASRCN[3] Input Cap.	0.0000	0.0000
NASRCN[3] Max Load	0.200	0.200
NASRCP[0] Input Cap.	0.0000	0.0000
NASRCP[0] Max Load	0.200	0.200
NASRCP[1] Input Cap.	0.0000	0.0000
NASRCP[1] Max Load	0.200	0.200
NASRCP[2] Input Cap.	0.0000	0.0000
NASRCP[2] Max Load	0.200	0.200
NASRCP[3] Input Cap.	0.0000	0.0000
NASRCP[3] Max Load	0.200	0.200
RASRCN[0] Input Cap.	0.0100	0.0100
RASRCN[0] Max Load	-	-
RASRCN[1] Input Cap.	0.0100	0.0100
RASRCN[1] Max Load	-	-
RASRCN[2] Input Cap.	0.0100	0.0100
RASRCN[2] Max Load	-	-
RASRCN[3] Input Cap.	0.0100	0.0100
RASRCN[3] Max Load	-	-
RASRCP[0] Input Cap.	0.0100	0.0100
RASRCP[0] Max Load	-	-
RASRCP[1] Input Cap.	0.0100	0.0100
RASRCP[1] Max Load	-	-
RASRCP[2] Input Cap.	0.0100	0.0100
RASRCP[2] Max Load	-	-
RASRCP[3] Input Cap.	0.0100	0.0100
RASRCP[3] Max Load	-	-

TQ Input Cap.	0.0085	0.0085

COMPENSATION_EXT_CSF_1V8_FC_LIN

Cell Description

COMPENSATION_EXT_CSF_1V8_FC_LIN

- The cell has ”dont_use” attribute set in the Synopsys STF.
- The cell has ”dont_touch” attribute set in the Synopsys STF.

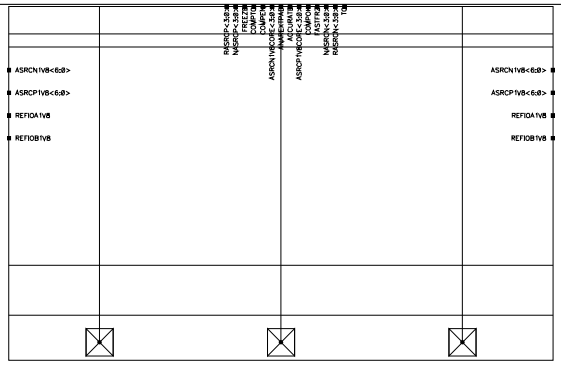
Physical Dimensions

Area(um2) : 41768.000

Glossary

Tr : Input Transition time
C : Output (capacitive) load
R : Rising edge
F : Falling edge

Logical Symbol



Cell Capacitance

Parameter	Value(pF)	
	best 0.90 -40	**worst 0.90 125**
ACCURATE Input Cap.	0.0083	0.0083
ANAREXTPAD Input Cap.	1.4000	1.4000
ANAREXTPAD Max Load	10000.000	10000.000
ASRCN1V8[0] Input Cap.	0.0100	0.0100
ASRCN1V8[0] Max Load	10000.000	10000.000
ASRCN1V8[1] Input Cap.	0.0100	0.0100
ASRCN1V8[1] Max Load	10000.000	10000.000
ASRCN1V8[2] Input Cap.	0.0100	0.0100
ASRCN1V8[2] Max Load	10000.000	10000.000
ASRCN1V8[3] Input Cap.	0.0100	0.0100
ASRCN1V8[3] Max Load	10000.000	10000.000
ASRCN1V8[4] Input Cap.	0.0100	0.0100
ASRCN1V8[4] Max Load	10000.000	10000.000
ASRCN1V8[5] Input Cap.	0.0100	0.0100
ASRCN1V8[5] Max Load	10000.000	10000.000
ASRCN1V8[6] Input Cap.	0.0100	0.0100
ASRCN1V8[6] Max Load	10000.000	10000.000
ASRCN1V8CORE[0] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[0] Max Load	10000.000	10000.000
ASRCN1V8CORE[1] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[1] Max Load	10000.000	10000.000
ASRCN1V8CORE[2] Input Cap.	0.0100	0.0100

ASRCN1V8CORE[2] Max Load	10000.000	10000.000
ASRCN1V8CORE[3] Input Cap.	0.0100	0.0100
ASRCN1V8CORE[3] Max Load	10000.000	10000.000
ASRCP1V8[0] Input Cap.	0.0100	0.0100
ASRCP1V8[0] Max Load	10000.000	10000.000
ASRCP1V8[1] Input Cap.	0.0100	0.0100
ASRCP1V8[1] Max Load	10000.000	10000.000
ASRCP1V8[2] Input Cap.	0.0100	0.0100
ASRCP1V8[2] Max Load	10000.000	10000.000
ASRCP1V8[3] Input Cap.	0.0100	0.0100
ASRCP1V8[3] Max Load	10000.000	10000.000
ASRCP1V8[4] Input Cap.	0.0100	0.0100
ASRCP1V8[4] Max Load	10000.000	10000.000
ASRCP1V8[5] Input Cap.	0.0100	0.0100
ASRCP1V8[5] Max Load	10000.000	10000.000
ASRCP1V8[6] Input Cap.	0.0100	0.0100
ASRCP1V8[6] Max Load	10000.000	10000.000
ASRCP1V8CORE[0] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[0] Max Load	10000.000	10000.000
ASRCP1V8CORE[1] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[1] Max Load	10000.000	10000.000
ASRCP1V8CORE[2] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[2] Max Load	10000.000	10000.000
ASRCP1V8CORE[3] Input Cap.	0.0100	0.0100
ASRCP1V8CORE[3] Max Load	10000.000	10000.000
COMPEN Input Cap.	0.0095	0.0095
COMPOK Max Load	0.200	0.200
COMPTQ Input Cap.	0.0120	0.0120
FASTFRZ Input Cap.	0.0069	0.0069
FREEZE Input Cap.	0.0076	0.0076
NASRCN[0] Input Cap.	0.0000	0.0000
NASRCN[0] Max Load	0.200	0.200
NASRCN[1] Input Cap.	0.0000	0.0000
NASRCN[1] Max Load	0.200	0.200
NASRCN[2] Input Cap.	0.0000	0.0000
NASRCN[2] Max Load	0.200	0.200
NASRCN[3] Input Cap.	0.0000	0.0000
NASRCN[3] Max Load	0.200	0.200
NASRCP[0] Input Cap.	0.0000	0.0000
NASRCP[0] Max Load	0.200	0.200
NASRCP[1] Input Cap.	0.0000	0.0000
NASRCP[1] Max Load	0.200	0.200
NASRCP[2] Input Cap.	0.0000	0.0000
NASRCP[2] Max Load	0.200	0.200
NASRCP[3] Input Cap.	0.0000	0.0000
NASRCP[3] Max Load	0.200	0.200
RASRCN[0] Input Cap.	0.0100	0.0100
RASRCN[0] Max Load	-	-
RASRCN[1] Input Cap.	0.0100	0.0100
RASRCN[1] Max Load	-	-
RASRCN[2] Input Cap.	0.0100	0.0100
RASRCN[2] Max Load	-	-

RASRCN[3] Input Cap.	0.0100	0.0100
RASRCN[3] Max Load	-	-
RASRCP[0] Input Cap.	0.0100	0.0100
RASRCP[0] Max Load	-	-
RASRCP[1] Input Cap.	0.0100	0.0100
RASRCP[1] Max Load	-	-
RASRCP[2] Input Cap.	0.0100	0.0100
RASRCP[2] Max Load	-	-
RASRCP[3] Input Cap.	0.0100	0.0100
RASRCP[3] Max Load	-	-
REFIOA1V8 Input Cap.	0.2360	0.2360
REFIOA1V8 Max Load	10000.000	10000.000
REFIOB1V8 Input Cap.	0.2360	0.2360
REFIOB1V8 Max Load	10000.000	10000.000
TQ Input Cap.	0.0085	0.0085

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