Production Documentation for:

Project Name: WATCHMAN_6UVME
Board Name: WATCHMAN TARGETC VME 6U
IDL num: IDL_18_048
Revision: A
Variant: [No Variations]
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Approved by: Gary S. Varner

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Global Sync Clk
Global Sync Clk, SchDoc
SyncAck1_N
SyncAck1_P
SyncAck2_N
SyncAck2_P
SyncAck_P
SyncAck_N
Global Sync Clk, 1
Global Sync Clk, 2
Global Sync Clk

Power
MicroZed
TargetC
TargetC

8 Gain Stages/Comparator

TargetC
TargetC

8 Gain Stages/Comparator

Power
MicroZed

TargetC
TargetC

8 Gain Stages/Comparator

TargetC
TargetC

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Power
MicroZed

TargetC
TargetC

8 Gain Stages/Comparator

TargetC
TargetC

8 Gain Stages/Comparator
Inverting Summing Amplifier

Unity Gain

Adds 4 Inputs from the Amplifier Stage

Inputs and Output is AC coupled

Balun Transformer with Center Tap is used for Single to Differential Pair Output

Due to the polarity of the Balun TF, inverted the net for SAout_P and SAout_N
Amplifier and Attenuation Stages

Changed the Feedback Loop to AC coupled
Amp baseline is set to +4V/2

New power line is set to attenuator stages to turn on diodes, independent of amp

Comparator

Connected Hysteresis to GND directly