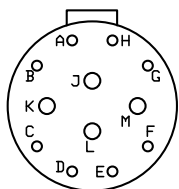


LNA Cable Interface

J1 Pinout looking into connector

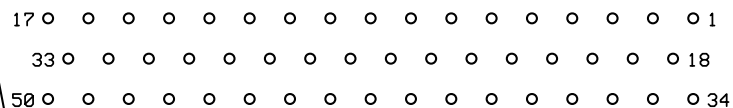


- A - LNA1 Drain Bias
- B - LNA1 Gate Bias
- C - LNA2 Drain Bias
- D - LNA2 Gate Bias
- E - LNA3 Drain Bias
- F - LNA3 Gate Bias
- G - LNA4 Drain Bias
- H - LNA4 Gate Bias
- J - Bias Return
- K - Bias Return
- L - Bias Return
- M - Bias Return

Connector Type:
Amphenol 14-12 Panel Receptacle, P/N PT02A-14-12S

Control and Power Interface

J2 Pinout looking into connector



Connector Type: DB-50 Female

- 1 - Drain Voltage Bias Monitor
- 2 - Drain Current Bias Monitor
- 3 - Gate Voltage Bias Monitor
- 4 - Bias Monitor Reference
- 5 - No Connection
- 6 - No Connection
- 7 - DAQ +5V, ID Code 1 Ref
- 8 - DAQ 0V Ground Return, ID Code 0 Ref
- 9 - Vd (Hi) - Id (Low) Select
- 10 - Step Up (Hi) - Down (Low)
- 11 - No Connection
- 12 - Device ID 1 = DAQ +5V
- 13 - +12V Power
- 14 - +/-12V Power Return (Ground)
- 15 - -12V Power
- 16 - +5V Power
- 17 - +5V Power Return
- 18 - Bias Monitor Reference

- 19 - Bias Monitor Reference
- 20 - Bias Monitor Reference
- 21 - Bias Monitor Reference
- 22 - No Connection
- 23 - No Connection
- 24 - DAQ 0V Ground Return, ID Code 0 Ref
- 25 - DAQ Ready In
- 26 - Enable Bias Set (Hi)
- 27 - LNA Select Bit 0
- 28 - No Connection
- 29 - +12V Power
- 30 - +/-12V Power Return (Ground)
- 31 - -12V Power
- 32 - +5V Power
- 33 - +5V Power Return
- 34 - No Connection
- 35 - No Connection
- 36 - No Connection
- 37 - No Connection

- 38 - No Connection
- 39 - No Connection
- 40 - DAQ 0V Ground Return, ID Code 0 Ref
- 41 - Remote Acknowledge Out
- 42 - Increment Bias (Low->Hi->Low)
- 43 - LNA Select Bit 1
- 44 - Device ID 0 = DAQ 0V
- 45 - ID SIS = DAQ 0V
- 46 - +12V Power
- 47 - +/-12V Power Return (Ground)
- 48 - -12V Power
- 49 - +5V Power
- 50 - +5V Power Return

Motherboard Interface

P1 Pinout looking into connector

Connector key positioned on left, as shown

Remote Acknowledge	02	10	DAQ Ready
Enable Bias Set (Hi)	04	30	Vd (Hi) - Id (Low) Select
Step Up (Hi) - Down (Low)	06	50	Increment Bias (Hi -> Low)
LNA Select Bit 1	08	70	LNA Select Bit 0
DAQ Control Ground Return	010	90	Spare (no connection)
Bias Monitor Reference	012	110	Drain Current Bias Monitor
Drain Voltage Bias Monitor	014	130	Gate Voltage Bias Monitor
LNA1 Drain Bias	016	150	LNA1 Gate Bias
LNA2 Drain Bias	018	170	LNA2 Gate Bias
Bias Return	020	190	Bias Return
LNA3 Drain Bias	022	210	LNA3 Gate Bias
LNA4 Drain Bias	024	230	LNA4 Gate Bias
+12V Power	026	250	Bias Return
-12V Power	028	270	+/-12V Power Return
+5V Power Return	030	290	+5V Power

Connector Type: Waldom/Molex 2x15 0.1" CGrid-III

Housing 90142-0030, P/N WM8046-ND

Fem Crimp terminals 26-28 AWG 90119-2121, P/N WM2561-ND

Fem Crimp terminals 22-24 AWG 90119-2110, P/N WM2559-ND

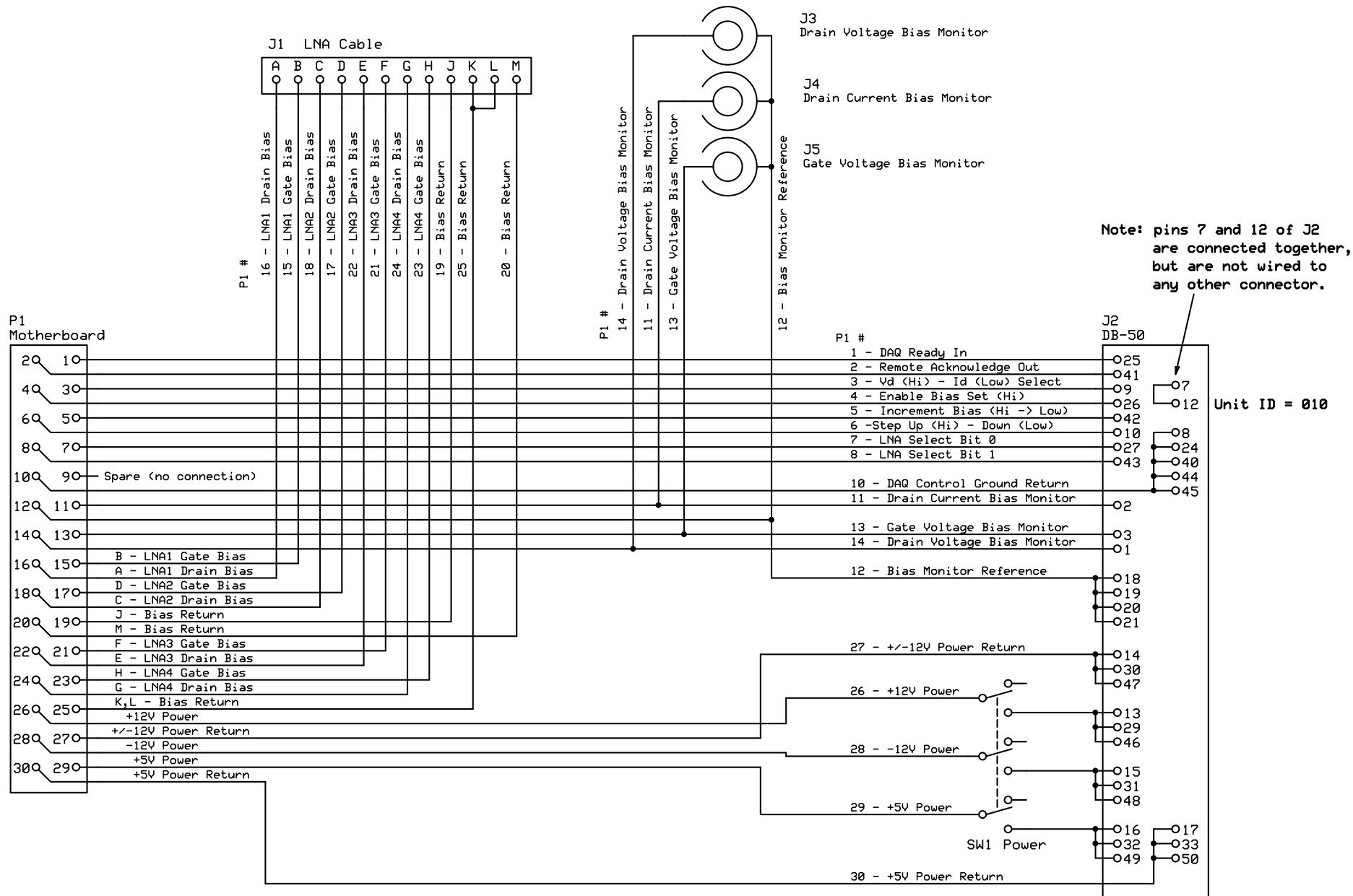
CSO Electronics Caltech

LNA Wiring Harness

F. Rice

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3/4/10

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