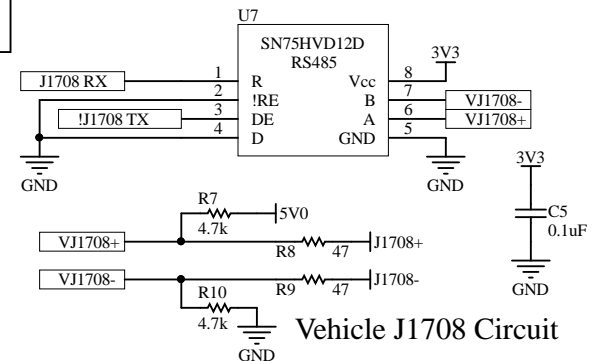
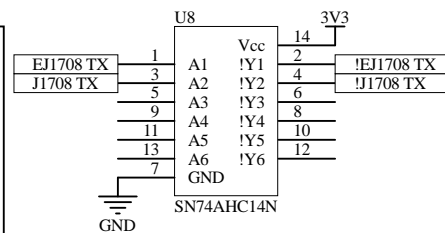
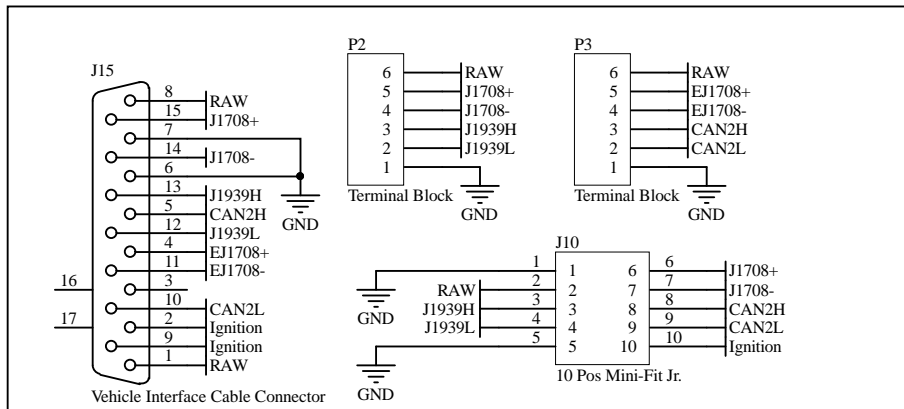



9-Pin connector Interface (Use PG11 Cordgrip)



Title: Beagle Bone Truck Cape			Dr. Jeremy Daily Mechanical Engineering The University of Tulsa 800 S. Tucker Dr Tulsa, OK 74104		
Subtitle: Headers, J1708 CAN, Power		Revision: 3			
Date: 5/26/2018 Time: 1:59:37 PM Size: Letter		Sheet 1 of 1			
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\Truck Cape\TruckCape BeagleBone Headers v3.SchDoc					

Item #	Manufacturer	#Column Name Error:Manufacturer No	Quantity	#Column Name Error:Note	Designator	Description	Footprint	Comment	LibRef
1	Sullins Connector Solutions		1		BeagleBoneBlack1	46 Positions Header, Breakaway Connector 0.100" (2.54mm) Through Hole Tin	Beagleboneblack	BeagleBoneBlack	BeagleBoneBlack
2	Vishay BC Components		5		C1, C4, C5, C6, C9	CAP CER 0.1uF 100V X7R RADIAL	CAPR5-4X5	0.1uF	Cap
3	Murata Electronics North America		3		C2, C3, C10	CAP CER 1uF 100V X7R RADIAL	CAPR5-4X5	1uF	Cap
4	EPCOS (TDK)		2		C7, C8	220uF 50V Aluminum Electrolytic Capacitors Radial, Can 175 mOhm @ 10kHz 5000 Hrs @ 105°C	Elec. Cap 5 x 10mm	220uF	Electrolytic Cap
5	STMicroelectronics		1		D1	Diode Schottky 150V 2A Through Hole DO-15	DO-41	STPS2150	Diode 1N4003
6	Molex		1		J10	10 Positions Header Connector 0.165" (4.20mm) Through Hole, Right Angle Tin	10 pos Mini-Fit Jr. R/A Header	10 Pos Mini-Fit Jr.	10 Pos Header
7	Amphenol FCI		1		J15	Receptacle Assembly, 15 Position, Right Angle, 8.08mm Series, Amplimite, with Screwlocks	DB15	Vehicle Interface Cable Connector	788781-2
8	Sullins Connector Solutions		1		P1	CONN HEADER FEMALE 6POS .1" GOLD	HDR1X6	Use this part in J1-1 to J1-6	Header 6
9	TE Connectivity AMP Connectors		2		P2, P3	6 Position Wire to Board Terminal Block Horizontal with Board 0.100" (2.54mm) Through Hole	HDR1X6	Terminal Block	Header 6
10	Littelfuse Inc.		1		PTC1	Polymeric PTC Resettable Fuse 60V 1.1A 1h Through Hole Radial, Disc	PTC	RKEF110	SMD Resistor
11	Yageo		6		R1, R2, R3, R6, R7, R10	RES SMD 4.7K OHM 1% 1/10W 0603	Axial-0.4	4.7k	Chip Resistor
12	Yageo		4		R4, R5, R8, R9	47 Ohms ±5% 0.25W, 1/4W Through Hole Resistor Axial Carbon Film	Axial-0.4	47	Chip Resistor
13	Texas Instruments		1		U1	Quad 3-State Buffer	N14A	SN74LS126AN	DM74LS126AN
14			1		U2	4-Pin Phototransistor Optocoupler	DIP-4	Opto	Optoisolator1
15	Microchip Technology		2		U3, U5	1/1 Transceiver Half CAN 8-PDIP	PDIP300-P8	MCP2562	SN65HVD232DR
16	Texas Instruments		2		U4, U7	IC 3.3V DIFF TXRX 8-SOIC	PDIP300-P8	SN75HVD12	SN75HVD12D (3.3v RS485)
17	Murata Power Solutions Inc.		1		U6	5V DC/DC Converter (7805 replacement)	OKI-78SR	OKI-78SR	7805
18	Texas Instruments		1		U8	Inverter IC 6 Channel Schmitt Trigger 14-PDIP	N14A	SN74AHC14N	74VHC14 Hex Inverter
19	Littelfuse Inc.		1		Z1	TVS DIODE 25.6V 41.4V DO201	DIODE-0.7	TP1.5KE30CA	Zener