

Bill of Materials

Bill of Materials For Project [conv-ttl-blo-v2.PrjPcb] (No PCB Document Selected)

Source Data From:	conv-ttl-blo-v2.PrjPcb
Project:	conv-ttl-blo-v2.PrjPcb
Variant:	None

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Designator	Quantity	Mounted	Comment	PackageDescripti	Library Reference	Manufacturer	Manufacturer Part Number	Description
B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17	17	No	Test Point		VERO_20-2136	VERO TECHNOLOGIES	20-2136	Single Terminal Socket
C1, C2, C3, C42, C48	5	Yes	39uF		CAER_39UF_35V_20%_SANYO_35SEPF3	SANYO OS-CON	35SEPF39M	Polarised capacitor
C4, C5, C6, C7, C8, C9, C10, C12, C13, C14, C15, C19, C20, C22, C23, C24, C25, C26, C29, C31, C32, C43, C53, C56, C211	25	Yes	22uF		CC1206_22UF_10V_10%_X7R	GENERIC	CC1206_22UF_10V_10%_X7R	Non-polarised capacitor
C11, C33, C34, C35, C36, C37, C38, C41, C50, C52, C54, C55, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C67_U_InputBlockingUnit1, C67_U_InputBlockingUnit2, C67_U_InputBlockingUnit3, C67_U_InputBlockingUnit4, C67_U_InputBlockingUnit5, C67_U_InputBlockingUnit6, C68, C69, C70, C82, C83, C84, C86, C87, C88, C98, C102, C103, C105, C106, C108, C110, C111, C112, C113, C114, C115, C116, C118, C119, C121, C122, C124, C125, C126, C127, C128, C129, C130, C132, C133, C134, C135, C136, C137, C138, C141, C142, C143, C144, C145, C147, C149, C151, C152, C153, C159, C160, C164, C168, C172, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C194, C197	96	No, Yes	100nF		CC0402_100NF_16V_10%_X7R	GENERIC	CC0402_100NF_16V_10%_X7R	Non-polarised capacitor
C11_U_BlockingUnit1, C11_U_BlockingUnit2, C11_U_BlockingUnit3, C11_U_BlockingUnit4, C11_U_BlockingUnit5, C11_U_BlockingUnit6, C11_U_BlockingUnit7, C11_U_BlockingUnit8, C11_U_BlockingUnit9, C11_U_BlockingUnit10, C11_U_BlockingUnit11, C11_U_BlockingUnit12, C11_U_BlockingUnit13, C11_U_BlockingUnit14, C11_U_BlockingUnit15, C11_U_BlockingUnit16, C11_U_BlockingUnit17, C11_U_BlockingUnit18, C21_U_BlockingUnit1, C21_U_BlockingUnit2, C21_U_BlockingUnit3, C21_U_BlockingUnit4, C21_U_BlockingUnit5, C21_U_BlockingUnit6, C21_U_BlockingUnit7, C21_U_BlockingUnit8, C21_U_BlockingUnit9, C21_U_BlockingUnit10, C21_U_BlockingUnit11, C21_U_BlockingUnit12, C21_U_BlockingUnit13, C21_U_BlockingUnit14, C21_U_BlockingUnit15, C21_U_BlockingUnit16, C21_U_BlockingUnit17, C21_U_BlockingUnit18, C92_U_BlockingUnit1, C92_U_BlockingUnit2, C92_U_BlockingUnit3, C92_U_BlockingUnit4, C92_U_BlockingUnit5, C92_U_BlockingUnit6, C92_U_BlockingUnit7, C92_U_BlockingUnit8, C92_U_BlockingUnit9, C92_U_BlockingUnit10, C92_U_BlockingUnit11, C92_U_BlockingUnit12, C92_U_BlockingUnit13, C92_U_BlockingUnit14, C92_U_BlockingUnit15, C92_U_BlockingUnit16, C92_U_BlockingUnit17, C92_U_BlockingUnit18, C189, C192, C193	57	No, Yes	100nF		CC0603_100NF_50V_10%_X7R	GENERIC	CC0603_100NF_50V_10%_X7R	Non-polarised capacitor
C16, C17, C44, C45, C80_U_InputBlockingUnit1, C80_U_InputBlockingUnit2, C80_U_InputBlockingUnit3, C80_U_InputBlockingUnit4, C80_U_InputBlockingUnit5, C80_U_InputBlockingUnit6, C97_U_InputBlockingUnit1, C97_U_InputBlockingUnit2, C97_U_InputBlockingUnit3, C97_U_InputBlockingUnit4, C97_U_InputBlockingUnit5, C97_U_InputBlockingUnit6	16	Yes	4.7nF		CC1206_4.7NF_50V_10%_X7R	GENERIC	CC1206_4.7NF_50V_10%_X7R	Non-polarised capacitor
C18, C27, C28, C46, C47, C49, C51, C89, C95, C104, C107, C109, C117, C120, C123, C131, C139, C140, C146, C148, C150, C167, C171	23	No, Yes	1uF		CC0603_1UF_16V_10%_X7R	GENERIC	CC0603_1uF_16V_10%_X7R	Non-polarised capacitor
C30, C39, C40	3	Yes	150uF		CAER_150UF_6.3V_20%_SANYO_6SEQP	SANYO OS-CON	6SEQP150M	Polarised capacitor
C71, C72, C73, C74, C75, C76, C77, C78, C79, C81, C85, C90, C91, C93, C94, C96	16	No	10pF		CC0603_10PF_50V_5%_NP0	GENERIC	CC0603_10PF_50V_5%_NP0	Non-polarised capacitor
C190, C191, C195, C196, C198	5	No, Yes	100pF		CC0402_100PF_50V_5%_NP0	GENERIC	CC0402_100PF_50V_5%_NP0	Non-polarised capacitor
CageBot1	1	Yes	SFP		TYCO_6367034-1	TYCO ELECTRONICS	TYCO_6367034-1	SFP_Cage Bottom (Small Form-factor
CageTop1	1	Yes	SFP		SFPx1_Cage Top	TYCO ELECTRONICS	TYCO_6367035-1	SFP_Cage Top (Small Form-factor
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	10	Yes	BAR66	SOT23 3-Leads, Pitch 0.95mm - Body 1.3x2.9mm, IPC Medium Density	BAR66	INFINEON	BAR66	Serial Diode
D2_U_BlockingUnit1, D2_U_BlockingUnit2, D2_U_BlockingUnit3, D2_U_BlockingUnit4, D2_U_BlockingUnit5, D2_U_BlockingUnit6, D2_U_BlockingUnit7, D2_U_BlockingUnit8, D2_U_BlockingUnit9, D2_U_BlockingUnit10, D2_U_BlockingUnit11, D2_U_BlockingUnit12, D2_U_BlockingUnit13, D2_U_BlockingUnit14, D2_U_BlockingUnit15, D2_U_BlockingUnit16, D2_U_BlockingUnit17, D2_U_BlockingUnit18, D3_U_BlockingUnit1, D3_U_BlockingUnit2, D3_U_BlockingUnit3, D3_U_BlockingUnit4, D3_U_BlockingUnit5, D3_U_BlockingUnit6, D3_U_BlockingUnit7, D3_U_BlockingUnit8, D3_U_BlockingUnit9, D3_U_BlockingUnit10, D3_U_BlockingUnit11, D3_U_BlockingUnit12, D3_U_BlockingUnit13, D3_U_BlockingUnit14, D3_U_BlockingUnit15, D3_U_BlockingUnit16, D3_U_BlockingUnit17, D3_U_BlockingUnit18, D4_U_BlockingUnit1, D4_U_BlockingUnit2, D4_U_BlockingUnit3, D4_U_BlockingUnit4, D4_U_BlockingUnit5, D4_U_BlockingUnit6, D4_U_BlockingUnit7, D4_U_BlockingUnit8, D4_U_BlockingUnit9, D4_U_BlockingUnit10, D4_U_BlockingUnit11, D4_U_BlockingUnit12, D4_U_BlockingUnit13, D4_U_BlockingUnit14, D4_U_BlockingUnit15, D4_U_BlockingUnit16, D4_U_BlockingUnit17, D4_U_BlockingUnit18, D17_U_InputBlockingUnit1, D17_U_InputBlockingUnit2, D17_U_InputBlockingUnit3, D17_U_InputBlockingUnit4, D17_U_InputBlockingUnit5, D17_U_InputBlockingUnit6	60	No, Yes	BAS16	SOT23 3-Leads, Pitch 0.95mm - Body 1.3x2.9mm, IPC Medium Density	BAS16	FAIRCHILD SEMICONDUCTOR	BAS16	Diode Anode Pin 1 Cathode Pin 3 (Pas de pin 2)
D11_U_BlockingUnit1, D11_U_BlockingUnit2, D11_U_BlockingUnit3, D11_U_BlockingUnit4, D11_U_BlockingUnit5, D11_U_BlockingUnit6, D11_U_BlockingUnit7, D11_U_BlockingUnit8, D11_U_BlockingUnit9, D11_U_BlockingUnit10, D11_U_BlockingUnit11, D11_U_BlockingUnit12, D11_U_BlockingUnit13, D11_U_BlockingUnit14, D11_U_BlockingUnit15, D11_U_BlockingUnit16, D11_U_BlockingUnit17, D11_U_BlockingUnit18	18	Yes	BZX84C15	SOT23 3-Leads, Pitch 0.95mm - Body 1.3x2.9mm, IPC Medium Density	BZX84C15	FAIRCHILD SEMICONDUCTOR	BZX84C15	Diode Zener Anode Pin 1 Cathode Pin 3 (Pas de pin 2)
D16_U_InputBlockingUnit1, D16_U_InputBlockingUnit2, D16_U_InputBlockingUnit3, D16_U_InputBlockingUnit4, D16_U_InputBlockingUnit5, D16_U_InputBlockingUnit6	6	Yes	SMBJ75CA	DO-214-AA/SMB Diode, Molded Body; 5.34mm L X 3.625mm W X 2.65mm H, IPC Medium Density	SMBJ75CA	FAIRCHILD SEMICONDUCTOR	SMBJ75CA	Transient Voltage Suppressor Diode (Bi-Directional)
D95	1	Yes	STPS340U	DO-214-AA/SMB Molded Diode, Body 5.4x3.6mm, IPC Medium Density	STPS340U	ST MICROELECTRONICS	STPS340U	Schottky Diode
F1, F2	2	Yes	2A-125V	SMF Fuse and Holder, 2-Leads, Body 9.73x5.03mm	FUSE_LITTELFUSE_0154002.DR	LITTELFUSE	0154002.DR	Fuse
FTG1, FTG2, FTG3, FTG4, FTG5, FTG6	6	No	Use only in PCB	Scare Fiducial Target, Top Layer, 2.0mm, Top Sloder 4.0mm, Keepout 4.0mm	FIDUCIAL_TARGET_S200-400			Fiducial Target
IC1, IC2, IC3	3	Yes	SN64BCT25244 DW	SOIC 24, Pitch 1.27mm - Body 7.6x15.6mm, IPC Medium Density	SN64BCT25244DW	TEXAS INSTRUMENTS	SN64BCT25244DW	25-Ohm Octal Buffer/Driver with 3-State Outputs

IC4, IC6, IC8, IC9, IC11, IC19, IC21, IC27	8	Yes	SN74LVC14AD	SOIC 14, Pitch 1.27mm - Body 4x8.75mm, IPC Medium Density	SN74LVC14AD	TEXAS INSTRUMENTS	SN74LVC14AD	Hex Schmitt-Trigger Inverter
IC5, IC28	2	Yes	SN74VMEH22501DGGR	SOP, 48-Leads, Body 12.6x6.2mm (max), Pitch 0.50mm, IPC Medium Density	SN74VMEH22501DGGR	TEXAS INSTRUMENTS	SN74VMEH22501DGGR	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers with 3-State Outputs
IC7	1	No	SN65LVDS2DBVR	SOT, 0.95mm pitch; 5 pin, 1.60mm W X 2.90mm L X 1.45mm H body, IPC Medium Density	SN65LVDS2DBVR	TEXAS INSTRUMENTS	SN65LVDS2DBVR	High-Speed Differential Line Receiver
IC10	1	Yes	SN74HC132D	SOIC 14, Pitch 1.27mm - Body 4x8.75mm, IPC Medium Density	SN74HC132D	TEXAS INSTRUMENTS	SN74HC132D	Quad Positive NAND Gate With Schmitt-Trigger Input
IC12	1	Yes	DS18B20U+	SOP, 0.65mm pitch; 8 pin, 3.00mm W X 3.00mm L X 1.10mm H body, IPC Medium Density	DS18B20U+	DALLAS MAXIM	DS18B20U+	Programmable Resolution 1-Wire Digital Thermometer
IC13	1	Yes	CDCM61004RHB	QFN, (MO-220-VHHD-4) 0.50mm pitch, square; 8 pin X 8 pin, 5mm X 5mm X 1.00mm H body (w/thermal tab 3.5 X 3.5mm), IPC Medium Density	CDCM61004RHB	TEXAS INSTRUMENTS	CDCM61004RHB	Four Output, Integrated VCO, Low-Jitter Clock Generator
IC14	1	Yes	XC6SLX45T-3FGG484C	BGA, 1.00mm pitch, square; 484 pin, 22 columns X 22 rows, 23.00mm X 23.00mm X 2.60mm H	XC6SLX45T-3FGG484C	XILINX	XC6SLX45T-3FGG484C	Spartan-6 LXT 1.2V FPGA, 296 User I/Os, 484-Ball Fine-Pitch BGA (1.0mm Pitch), Speed Grade 3, Commercial Grade, Pb-Free
IC15	1	Yes	LP5951MF-3.0/NOPB	SOT23 5, Pitch 0.95mm - Body 1.67x2.99mm, IPC Medium Density	LP5951MF-3.0/NOPB	NATIONAL SEMICONDUCTOR	LP5951MF-3.0/NOPB	150mA Micropower Low-Dropout CMOS Voltage Regulator
IC16, IC17	2	Yes	AD5662BRMZ-1	SOP, 8-Leads,	AD5662BRMZ-1	ANALOG DEVICES	AD5662BRMZ-1	2.7V to 5.5V, 250uA, Rail-to-Rail Output 16-
IC18	1	Yes	LM336M-2.5/NOPB	SOIC 8, Pitch 1.27mm - Body 4x5mm, IPC Medium Density	LM336M-2.5/NOPB	NATIONAL SEMICONDUCTOR	LM336M-2.5/NOPB	Reference Diode
IC20_U_InputBlockingUnit1, IC20_U_InputBlockingUnit2, IC20_U_InputBlockingUnit3, IC20_U_InputBlockingUnit4, IC20_U_InputBlockingUnit5, IC20_U_InputBlockingUnit6	6	Yes	HCPL-0601-000E	SOIC, 1.27mm pitch; 8 pin, 4.00mm W X 5.00mm L, IPC Medium Density	HCPL-0601-000E	AVAGO TECHNOLOGIES	HCPL-0601-000E	Single Optocoupler
IC22	1	Yes	M25P32-VMF6P	SOIC 16, Pitch 1.27mm - Body 7.5x10.3mm, IPC Medium Density	M25P32-VMF6P	MICRON	M25P32-VMF6P	32 Mbit, low-voltage, Serial Flash memory with 75-MHz SPI bus interface
IC29	1	Yes	TPS54312PWP	SOP, 0.65mm Pitch, 20 Pin, 4.40mm W X 6.50mm L X 1.20mm H body (w/thermal tab 2.4mm X 3.4mm), IPC Medium Density	TPS54312PWP	TEXAS INSTRUMENTS	TPS54312PWP	3V to 6V Input, 3A Output Synchronous-Buck PWM Switcher With Integrated FETs (SWIFT)
IC30	1	Yes	TPS3808G01DBVT	SOT23, 6-Leads, Body 1.6x3.0mm, Pitch 0.95mm, IPC Medium Density	TPS3808G01DBVT	TEXAS INSTRUMENTS	TPS3808G01DBVT	Low Quiescent Current, Programmable-Delay Supervisory Circuit
IC31	1	Yes	TPS40210DGQ	SOP, 0.50mm, pitch; 10 pin, 3.00mm W X 3.00mm L X 1.10mm H body (w/thermal tab 1.57 X 1.88 mm), IPC Medium Density	TPS40210DGQ	TEXAS INSTRUMENTS	TPS40210DGQ	4.5V To 52v Input Current Mode Boost Controller
J1	1	Yes	SFP+		TYCO_1888247-1	TYCO ELECTRONICS	1888247-1	20 Position SFP+ Connector (Small Form-
J2, J3, J4, J5, J6, J7, J8, J9, J10, J11	10	Yes	LEMO 00		LEMO_EPY.00.250.NTNY	LEMO	EPY.00.250.NTNY	Dual Female Coax 1-2 Common Shield 3
J12	1	No	Header 16		COMATEL_389.0358.1.16.400	KONTEK COMATEL	389.0358.1.16.400	Connector 16 Male
J13	1	Yes	Milli-Grid™		MOLEX_87832-1420	MOLEX	87832-1420	Connector 14 Male
L1_U_BlockingUnit1, L1_U_BlockingUnit2, L2, L3	18	Yes	100uH		IND_100UH_20%_COILCRAFT_MSD1278-	COILCRAFT	MSD1278-104MLB	Coupled Inductor (MSD1278 Serie)
L13, L14, L15, L16, L25, L26	2	Yes	180R @ 100MHz		IND1806_MURATA_BLM41PG181SN1L	MURATA	BLM41PG181SN1L	Inductor
L23, L24	6	Yes	220R @ 100MHz		IND0805_MURATA_BLM21PG221SN1D	MURATA	BLM21PG221SN1D	Inductor
LD1, LD2, LD3, LD6, LD8, LD9	2	Yes	10uH		IND_10UH_20%_COILCRAFT_DO3316P-	COILCRAFT	DO3316P-103MLD	Inductor With Magnetic core
	6	Yes	Green	Single 3mm Green LED, Body 6.35x4.32mm, Pin spacing 2.54mm	LED_DIALIGHT_551-1307F	DIALIGHT	551-1307F	LED Green 1C 2A
LD4, LD5, LD7	3	Yes	Red/Green	Quad-Level 4x2mm Rectangular Bi-Color Red/Green LED CBI Circuit Board Indicator	LED_DIALIGHT_568-0721-111	DIALIGHT	568-0721-111	4 x Red/ Green Bi color LED Pin 1 = Cathode Red Anode Green Top LED
OSC1	1	Yes	25MHz	SMD Oscillator, Corner Convave, 4 pins, 5x3.2mm	OSC_25MHZ_MERCURY_VM53S3-25.000-2.5/-30+75	MERCURY ELECTRONICS	VM53S3-25.000-2.5/-30+75	Oscillator 4 pins 1=VC 2=GND 3=OUT 4=+Vs
OSC2	1	No	25MHz	Oscillator IVT3200C Serie, corner concave; 4 pin, 2.50mm L X 3.2mm W X 1.1mm H	OSC_25MHZ_RAKON_IVT3205CR	RAKON	IVT3205CR 25.0 MHz	Oscillator 4 pins 1=VCO 3=GND 4=OUT 6=VDC
OSC3	1	Yes	20MHz	SMD VCXO,	OSC_20MHZ_IQD_LF_VCXO026156	IQD FREQUENCY PRODUCTS	LF_VCXO026156	3.3V ±100ppm 15pF HCMOS Tri-State
P1, P2	2	Yes	HAR-BUS 64		HARTING_02 01 160 2101	HARTING	02 01 160 2101	Connector 160zabcd Male (5x32)
PB1	1	No	Push Button	Body 6mm x 6mm, Surface Mount Tactile Switches, TYCO ALCOSWITCH FSMJSMA Series	PB_TYCO_ALCOSWITCH_FSM2JSMA	TYCO ALCOSWITCH	FSM2JSMA or 2-1437565-7	Push-Button Switch SPDT
R1, R2, R91, R96, R104, R105	6	Yes	2M2		R1206_2M2_1%_0.25W_100PPM	GENERIC	R1206_2M2_1%_0.25W_100PPM	Resistor - 1%
R3, R31, R37, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R92, R93, R94, R95, R100, R101, R103, R106, R107, R120, R133, R134, R136, R152_U_InputBlockingUnit1, R152_U_InputBlockingUnit2, R152_U_InputBlockingUnit3, R152_U_InputBlockingUnit4, R152_U_InputBlockingUnit5, R152_U_InputBlockingUnit6, R154, R158, R159, R160, R173, R174, R175, R176, R177, R180, R181, R182, R200, R201, R202, R203, R212, R223, R224, R225, R265, R268, R269, R273, R274, R275, R276, R277, R278, R279, R280	69	Yes	4k7		R0603_4K7_1%_0.1W_100PPM	GENERIC	R0603_4K7_1%_0.1W_100PPM	Resistor - 1%

R12_U_BlockingUnit1, R12_U_BlockingUnit2, R12_U_BlockingUnit3, R12_U_BlockingUnit4, R12_U_BlockingUnit5, R12_U_BlockingUnit6, R12_U_BlockingUnit7, R12_U_BlockingUnit8, R12_U_BlockingUnit9, R12_U_BlockingUnit10, R12_U_BlockingUnit11, R12_U_BlockingUnit12, R12_U_BlockingUnit13, R12_U_BlockingUnit14, R12_U_BlockingUnit15, R12_U_BlockingUnit16, R12_U_BlockingUnit17, R12_U_BlockingUnit18, R16, R17, R21, R22, R26, R27, R32, R36, R41, R47, R51, R62, R56, R57, R61_U_InputBlockingUnit1, R61_U_InputBlockingUnit2, R61_U_InputBlockingUnit3, R61_U_InputBlockingUnit4, R61_U_InputBlockingUnit5, R61_U_InputBlockingUnit6, R62, R102, R108, R109_U_BlockingUnit1, R109_U_BlockingUnit2, R109_U_BlockingUnit3, R109_U_BlockingUnit4, R109_U_BlockingUnit5, R109_U_BlockingUnit6, R109_U_BlockingUnit7, R109_U_BlockingUnit8, R109_U_BlockingUnit9, R109_U_BlockingUnit10, R109_U_BlockingUnit11, R109_U_BlockingUnit12, R109_U_BlockingUnit13, R109_U_BlockingUnit14, R109_U_BlockingUnit15, R109_U_BlockingUnit16, R109_U_BlockingUnit17, R109_U_BlockingUnit18, R110, R111, R148_U_InputBlockingUnit1, R148_U_InputBlockingUnit2, R148_U_InputBlockingUnit3, R148_U_InputBlockingUnit4, R148_U_InputBlockingUnit5, R148_U_InputBlockingUnit6, R230, R259, R266, R267	72	Yes	1k		R0603_1K_1%_0.1W_100PPM	GENERIC	R0603_1K_1%_0.1W_100PPM	Resistor - 1%
R5, R6, R7, R8, R9, R10, R11_U_BlockingUnit1, R11_U_BlockingUnit2, R11_U_BlockingUnit3, R11_U_BlockingUnit4, R11_U_BlockingUnit5, R11_U_BlockingUnit6, R11_U_BlockingUnit7, R11_U_BlockingUnit8, R11_U_BlockingUnit9, R11_U_BlockingUnit10, R11_U_BlockingUnit11, R11_U_BlockingUnit12, R11_U_BlockingUnit13, R11_U_BlockingUnit14, R11_U_BlockingUnit15, R11_U_BlockingUnit16, R11_U_BlockingUnit17, R11_U_BlockingUnit18, R13_U_BlockingUnit1, R13_U_BlockingUnit2, R13_U_BlockingUnit3, R13_U_BlockingUnit4, R13_U_BlockingUnit5, R13_U_BlockingUnit6, R13_U_BlockingUnit7, R13_U_BlockingUnit8, R13_U_BlockingUnit9, R13_U_BlockingUnit10, R13_U_BlockingUnit11, R13_U_BlockingUnit12, R13_U_BlockingUnit13, R13_U_BlockingUnit14, R13_U_BlockingUnit15, R13_U_BlockingUnit16, R13_U_BlockingUnit17, R13_U_BlockingUnit18, R14_U_BlockingUnit1, R14_U_BlockingUnit2, R14_U_BlockingUnit3, R14_U_BlockingUnit4, R14_U_BlockingUnit5, R14_U_BlockingUnit6, R14_U_BlockingUnit7, R14_U_BlockingUnit8, R14_U_BlockingUnit9, R14_U_BlockingUnit10, R14_U_BlockingUnit11, R14_U_BlockingUnit12, R14_U_BlockingUnit13, R14_U_BlockingUnit14, R14_U_BlockingUnit15, R14_U_BlockingUnit16, R14_U_BlockingUnit17, R14_U_BlockingUnit18, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R98, R99, R137, R178, R179, R183, R184, R185, R198, R199, R210, R211, R270, R271	86	No, Yes	100		R0603_100R_1%_0.1W_100PPM	GENERIC	R0603_100R_1%_0.1W_100PPM	Resistor - 1%
R13, R14, R15, R18, R19, R20, R23, R24, R25, R28, R29, R30, R33, R34, R35, R38, R39, R40, R43, R44, R45, R48, R49, R50, R53, R54, R55, R58, R59, R60, R149_U_InputBlockingUnit1, R149_U_InputBlockingUnit2, R149_U_InputBlockingUnit3, R149_U_InputBlockingUnit4, R149_U_InputBlockingUnit5, R149_U_InputBlockingUnit6, R150_U_InputBlockingUnit1, R150_U_InputBlockingUnit2, R150_U_InputBlockingUnit3, R150_U_InputBlockingUnit4, R150_U_InputBlockingUnit5, R150_U_InputBlockingUnit6, R151_U_InputBlockingUnit1, R151_U_InputBlockingUnit2, R151_U_InputBlockingUnit3, R151_U_InputBlockingUnit4, R151_U_InputBlockingUnit5, R151_U_InputBlockingUnit6, R42, R46, R261	48	Yes	150		R1206_150R_1%_0.25W_100PPM	GENERIC	R1206_150R_1%_0.25W_100PPM	Resistor - 1%
R97, R135, R138, R139, R140, R141, R155, R156, R228, R262, R263	9	No, Yes	0		R0603_0R_JUMPER	GENERIC	R0603_0R_JUMPER	Resistor - 1%
R229	1	Yes	470k		R0603_470K_1%_0.1W_100PPM	GENERIC	R0603_470K_1%_0.1W_100PPM	Resistor - 1%
R260	1	Yes	510		R0603_510R_1%_0.1W_100PPM	GENERIC	R0603_510R_1%_0.1W_100PPM	Resistor - 1%
R264	1	Yes	3R9		R0603_3R9_1%_0.1W_200PPM	GENERIC	R0603_3R9_1%_0.1W_200PPM	Resistor - 1%
SW1	1	Yes	0R02		R2512_0R02_1%_1W_75PPM_VISHAY_W	VISHAY DALE	WSL2512R0200FEA	Resistor - 1%
	1	Yes	Switch	Pitch 1.27mm, Body 11.28x6.2mm, 8 Ways SPST Surface-Mount DIP Switch, TYCO GDH Serie	SW_TYCO_1-1571983-0	TYCO	1-1571983-0 or GDH08S04	8 Ways SPST DIP Switch
T1_U_BlockingUnit1, T1_U_BlockingUnit2, T1_U_BlockingUnit3, T1_U_BlockingUnit4, T1_U_BlockingUnit5, T1_U_BlockingUnit6, T1_U_BlockingUnit7, T1_U_BlockingUnit8, T1_U_BlockingUnit9, T1_U_BlockingUnit10, T1_U_BlockingUnit11, T1_U_BlockingUnit12, T1_U_BlockingUnit13, T1_U_BlockingUnit14, T1_U_BlockingUnit15, T1_U_BlockingUnit16, T1_U_BlockingUnit17, T1_U_BlockingUnit18	18	Yes	BSH103	SOT23, 3 pin, Pitch 0.95mm - 1.3mm W X 2.9mm L X 1.1mm H, IPC Medium Density	BSH103	NXP SEMICONDUCTORS	BSH103	N-CHANNEL MOSFET WITH DIODE
T19	1	Yes	Si4470EY-T1-E3	SOIC 8, Pitch 1.27mm - Body 4x5mm, IPC Medium Density	Si4470EY-T1-E3	VISHAY SILICONIX	Si4470EY-T1-E3	60V 12.7A N-Channel MOSFET
TP1, TP2, TP3, TP4, TP5, TP6	6	No	Test Point	1.27mm x 1.27mm PCB Copper Area (SMD Test Point)	SMD_PAD_1.27X1.27MM			Test Point
	781							
Approved		Notes						