

Designator	Supplier Part Number 1	Comment	Description	Quantity	Footprint	Manufacturer	Capacitance	Colour	Resistance	Tolerance	Voltage	Voltage Rating	Voltage Rating (DC)
C1, C6, C11, C15, C24, C31, C37, C43, C48	1276-1909-6-ND	Capacitor	Capacitor	9	0603-CAP	Samsung	100pF			10%		50V	
C2, C4, C5, C7, C9, C10, C12, C14, C16, C18, C25, C27, C28, C32, C34, C35, C38, C40, C44, C46, C50, C51, C52, C54, C55, C56, C57, C58, C59, C60, C63, C64, C67, C68, C71, C72, C75, C76, C79, C80, C83, C84, C85, C86, C91A, C91B, C91C, C91D, C91E, C91F, C92A, C92B, C92C, C92D, C92E, C92F, C93A, C93B, C93C, C93D, C93E, C93F, C93G, C93H, C93I, C93J, C93K, C93L, C93M, C93N, C93O, C93P, C94A, C94B, C94C, C94D, C94E, C94F, C94G, C94H, C94I, C94J, C94K, C94L, C94M, C94N, C94O, C94P, C95A, C95B, C95C, C95D, C95E, C95F, C96A, C96B, C96C, C96D, C96E, C96F, C97A, C97B, C97C, C97D, C97E, C97F, C98A, C98B, C98C, C98D, C98E, C98F, C99A, C99B, C99C, C99D, C99E, C99F, C100A, C100B, C100C, C100D, C100E, C100F, C172, C174, C176	1276-1012-6-ND	Capacitor	Capacitor	127	0603-CAP	Samsung	100nF			80%	50V	50V	
C3, C8, C13, C17, C20, C21, C22, C26, C29, C30, C33, C36, C39, C41, C45	1276-1119-6-ND	Capacitor	Capacitor	15	0603-CAP	Samsung	10uF			20%	6.3V	6.3V	
C19, C157A, C157B, C158A, C158B, C161, C162, C163A, C163B, C164A, C164B	1276-1192-6-ND	Capacitor	Capacitor	11	0603-CAP	Samsung	10uF			10%	6.3V, [NoParam]	10V	10V
C23, C42, C47, C53, C61, C62, C65, C66, C69, C70, C73, C74, C77, C78, C81, C82, C89A, C89B, C89C, C89D, C89E, C89F, C89G, C89H, C89I, C89J, C89K, C89L, C89M, C89N, C89O, C89P, C90A, C90B, C90C, C90D, C90E, C90F, C90G, C90H, C90I, C90J, C90K, C90L, C90M, C90N, C90O, C90P, C179A, C179B, C179C, C179D, C180A, C180B, C180C, C180D, C183A, C183B, C183C, C183D, C184A, C184B, C184C, C184D, C187A, C187B, C187C, C187D, C188A, C188B, C188C, C188D	1276-6524-6-ND	Capacitor	Capacitor	72	0603-CAP	Samsung	1uF			20%		16V	
C87, C105, C109, C110, C112, C113	709-1046-6-ND	Capacitor	Capacitor	6	1808-CAP	Johanson	1nF			10%		2kV	2kV
C88, C115, C116	445-9015-6-ND	Capacitor	Capacitor	3	0603-CAP	TDK	10uF			20%		25V	25V
C101	493-2203-6-ND	Cap Pol1	Polarized Capacitor (Radial)	1	CAP - UWT1V101MCL1GS	Nichicon	100uF			20%	35V	35V	35V
C102, C103, C104	493-12786-1-ND	Cap Pol1	Polarized Capacitor (Radial)	3	CAP - UVR1H102MHD1TO	Nichicon	1000uF			20%	50V	50V	50V
C106, C107, C108, C111, C114	445-3919-6-ND	Capacitor	Capacitor	5	1812-CAP	TDK	6.8uF			10%	50V	50V	50V
C165A, C165B, C166A, C166B, C167A, C167B, C168A, C168B, C169, C173, C175	490-10486-6-ND	Capacitor	Capacitor	11	0603-CAP	Murata	2.2uF			20%		35V	35V
C170	445-7743-6-ND	Capacitor	Capacitor	1	1812-CAP	TDK	100uF			20%		10V	10V
C171	1276-6504-6-ND	Capacitor	Capacitor	1	0603-CAP	Samsung	22uF			20%		10V	
C181A, C181B, C181C, C181D, C182A, C182B, C182C, C182D, C185A, C185B, C185C, C185D, C186A, C186B, C186C, C186D	478-1548-6-ND	Capacitor	Capacitor	16	0603-CAP	Kyocera AVX	33nF			10%	50V	50V	50V
CON1	A115463-ND	5569257-1	CONN MOD JACK 8P8C R/A SHIELDED	1	5569257-1	TE Connectivity							
CON2, CON3, CON4	277-1667-ND	ScrewTerminal_1x2		3	1935161	Phoenix Contact						300V	
CON5	AE10921-ND	A-DF 09 A/KG-T2S	CONN D-SUB RCPT 9POS R/A SOLDER	1	A-DF 09 A/KG-T2S	Assmann							
CON6	380-1110-ND	L829-1J1T-43		1	L829-1J1T-43	Bel		Green,Orange,Yellow,Silver					
CON7, CON8A, CON8B, CON8C, CON8D	1115FFE-ND	178-015-513R571	CONN D-SUB RCPT 15POS R/A SLDR	5	178-015-513R571	NorComp		Black					

Designator	Supplier Part Number 1	Comment	Description	Quantity	Footprint	Manufacturer	Capacitance	Colour	Resistance	Tolerance	Voltage	Voltage Rating	Voltage Rating (DC)
CON9	1286-1192-ND	JTAG-SMT2		1	JTAG-SMT2	Digilent							
CON10	609-3243-ND	JTAG		1	PIN_HEADER_2x7	Amphenol FCI		Black				1.5kV	
CON11, CON12	A97799TR-ND	1981584-1	CONN RCPT MICRO USB TYPE AB	2	1981584-1	TE Connectivity		Grey				30V	
CON13	609-3391-ND	PIN_2x4		1	PIN_HEADER_2x4	Amphenol FCI		Black				1.5kV	
CON14	609-3218-ND	PIN_2x3		1	PIN_HEADER_2x3	Amphenol FCI		Black				1.5kV	
CON15, CON16	609-3390-ND	PIN_2x2		2	PIN_HEADER_2x2								
D1, D7, D8	F2895TR-ND	SP1001-04JTG	TVS DIODE 5.5V 13V SC70-5	3	SC70-5	[NoParam], Littelfuse	[NoParam], 8pF						
D2	RB521S30T1GOSTR-ND	RB521	DIODE SCHOTTKY 30V 200MA SOD523	1	SOD-523	ON Semiconductor							30V
D3	F2895DKR-ND	SP1001-04JTG	TVS DIODE 5.5V 13V SC70-5	1	SC70-5	Littelfuse	8pF						
D5A, D5B, D5C, D5D, D6A, D6B, D6C, D6D, D9A, D9B, D9C, D9D, D10A, D10B, D10C, D10D	SMAJ22CABDKR-ND	TVS SMAJ22CA	TVS DIODE 22V 35.5V SMA	16	SMA	Bourns							
JP1, JP9, JP10, JP12, JP13, JP14	732-5315-ND	Jumper2		6	PIN_HEADER_1x2	Wurth Electronics		Black				250V	
JP2, JP3, JP4, JP5, JP8, JP11, JP16	732-5316-ND	Jumper3		7	PIN_HEADER_1X3	Wurth Electronics		Black					
JP6, JP7, MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, MH10, MH11, SOM1		Jumper4T, MOUNT_HOLE, PicoZed	[NoValue], MOUNTING HOLE, PicoZed SOM Carrier Footprint	14	PIN_HEADER_1X3T, MOUNTING_HOLE, PicoZedSOM								
L1	SRP1770TA-101MDKR-ND	IND SRP1770TA-101M	FIXED IND 100UH 5.3A 118 MOHM	1	IND - SRP1770TA-101M	Bourns				20%			
L2	732-2215-6-ND	CMC 744273801	CMC 450UH 6.5A 2LN TH	1	CMC 744273801	Wurth Electronics			11mR	25%			80V
LED1, LED5	160-1448-6-ND	LED		2	0603-LED	Vishay Lite-On		Yellow					
LED2	160-1447-6-ND	LED		1	0603-LED	Vishay Lite-On		Red		2V			
LED3	160-1446-6-ND	LED		1	0603-LED	Vishay Lite-On		Green					
LED4	492-1243-2-ND	LED_RGB_CA		1	1210-LED-RGB-CA								
LED6	160-1446-2-ND	LED		1	0603-LED	Vishay Lite-On		Green					
LED7	160-2212-6-ND	LED		1	0603-LED	Vishay Lite-On		Blue		29V			
Q1, Q2, Q3, Q4, Q5	DMN65D8L-7DIDKR-ND	MOSFET		5	SOT95P250-3N	Diodes							
Q6, Q7, Q8	DMN65D8L-7DITR-ND	MOSFET		3	SOT95P250-3N	Diodes							
Q9	SI4946CDY-T1-GE3DKR-ND	SI4946	MOSFET Dual N-Channel 60V SO-8 Dual	1	SO8_N	Vishay							
R1, R23, R24, R25, R26A, R26B, R26C, R26D, R46, R53	P0.0GDKR-ND	Resistor	Resistor	10	0603-RES	Panasonic			0mR, 0R	0%		75V	50V
R2, R30	RMCF0603FT49K9DKR-ND	Resistor	Resistor	2	0603-RES	Stackpole Electronics			49.9k	1%			
R3	311-23.7KHRDKR-ND	Resistor	Resistor	1	0603-RES	Yageo			23.7k	1%		75V	50V
R4, R6	RMCF0603FT60K4CT-ND	Res	Resistor	2	0603-RES	Stackpole Electronics			60.4k	1%			
R5	RMCF0603FT3M92CT-ND	Res	Resistor	1	0603-RES	Stackpole Electronics			3.92M	1%			
R7	RMCF0603FT40K2CT-ND	Res	Resistor	1	0603-RES	Stackpole Electronics			40.2k	1%			
R10, R11, R14, R15, R16	P240HDKR-ND	Resistor	Resistor	5	0603-RES	Panasonic			240R	1%		75V	75V
R12	YAG3628DKR-ND	Resistor	Resistor	1	0603-RES	Yageo			750	1%		50V	
R13, R19, R27, R28, R29, R31, R32, R52, R57A, R57B, R57C, R57D, R58A, R58B, R58C, R58D, R59A, R59B, R59C, R59D, R60A, R60B, R60C, R60D	YAG3561DKR-ND	Resistor	Resistor	24	0603-RES	Yageo			100R, 100	1%		50V	
R17, R18, R21, R22	P10.0KHCT-ND	Resistor	Resistor	4	0603-RES	Panasonic			10kR	1%		75V	75V
R38A, R38B	311-115KHRDKR-ND	Resistor	Resistor	2	0603-RES	Yageo			115k	1%		50V	50V
R39A, R39B, R43, R44, R45, R47, R48, R50, R51	P10.0KHDKR-ND	Resistor	Resistor	9	0603-RES	Panasonic			10kR	1%		75V	75V
R40A, R40B	311-16.0KHRDKR-ND	Resistor	Resistor	2	0603-RES	Yageo			16k	1%		50V	50V
R41A, R41B	311-180KHRDKR-ND	Resistor	Resistor	2	0603-RES	Yageo			180k	1%		50V	50V
R42	P1.00KHDKR-ND	Resistor	Resistor	1	0603-RES	Panasonic			1kR	1%		75V	75V
R49	YAG3582DKR-ND	Resistor	Resistor	1	0603-RES	Yageo			240	1%		50V	
R54, R55	311-330HRDKR-ND	Resistor	Resistor	2	0603-RES	Yageo			330R	1%		50V	50V
R56	P5.1KBDKR-ND	Resistor	Resistor	1	0603-RES	Panasonic			5.1kR	0.1%		75V	75V
SW1, SW3	450-1662-ND	1825027-5	SWITCH TACTILE SPST-NO 0.05A 24V	2	1825027-5	TE Connectivity							24V
SW2	CT1942MST-ND	194-2MST	SWITCH PIANO DIP SPST 50MA 24V	1	194-2MST								

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TP1A, TP1B, TP1C, TP1D, TP2A, TP2B, TP2C, TP2D, TP3A, TP3B, TP3C, TP3D, TP4A, TP4B, TP4C, TP4D, TP5A, TP5B, TP5C, TP5D, TP6A, TP6B, TP6C, TP6D, TP7A, TP7B, TP7C, TP7D, TP8A, TP8B, TP8C, TP8D, TP9A, TP9B, TP9C, TP9D, TP10A, TP10B, TP10C, TP10D, TP11A, TP11B, TP11C, TP11D, TP12A, TP12B, TP12C, TP12D, TP14, TP16, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, TP39, TP40, TP41, TP42, TP43	A106145CT-ND	Test Point	Test Point	76	RCU-0C								
U1, U2	LTC2320CUKG-14#PBF-ND	LTC2320-14	IC ADC 14BIT 1.5MSPS SAR 52QFN - 14 Bit Analog to Digital Converter 8 Input 4 SAR 52-QFN (7x8)	2	QFN52	Analog Devices / Linear Technology							
U3, U14	945-2987-ND	DCDC Converter RS6	Recom RS6	2	RS6 DCDC	Recom							
U4, U13A, U13B, U13C, U13D, U13E, U13F	ADG3308BRUZ-ND	ADG3308	IC XLATOR 8CH 1.2-5.5V 20TSSOP	7	TSSOP-20	[NoParam], Analog Devices							
U5	MAX3098EACSE+-ND	MAX3097E	IC RS485/422 RX 32MBPS 16-QSOP	1	SOIC16_N								
U6, U9	296-18593-6-ND	SN74LVC8T245PWR	IC BUS TRANSCVR 8BIT 24TSSOP	2	TSSOP24	Texas Instruments							
U7, U8, U10, U11	296-16845-6-ND	SN74LVC2T45DCTR	IC BUS TRANSCVR 2BIT N-INV SM8	4	SM8	Texas Instruments							
U12A, U12B, U12C, U12D, U12E, U12F, U15A, U15B, U15C, U15D, U15E, U15F	TC4468COE-ND	TC4468	IC MOSFET DVR QUAD AND 16SOIC	12	SOIC16_N - wide	Microchip							
U16A, U16B, U16C, U16D, U16E, U16F, U16G, U16H, U16I, U16J, U16K, U16L, U16M, U16N, U16O, U16P	296-16845-1-ND	SN74LVC2T45DCTR	IC BUS TRANSCVR 2BIT N-INV SM8	16	SM8	Texas Instruments							
U17	555-1311-ND	DCDC Converter SHHD003A0A41Z	DC/DC CONVERTER 15W 5V 3A	1	DCDC	GE							
U18	LTC4365CTS8#TRMPBFCT-ND	LTC4365	Overvoltage, Undervoltage and Reverse Supply Protection Controller	1	TS8	Analog Devices / Linear Technology							
U19A, U19B	REF3020AIDBZTDKR-ND	REF3020AIDBZT	Series Voltage Reference IC ±0.2% 25mA SOT-23-3	2	SOT23-3								
U20	296-34943-1-ND	TPS22965DSGT	IC LOAD SWITCH 6A 8WSON	1	8-WDFDN Exposed Pad								
U34	1727-4560-2-ND	74LVC1T45GW,125	TXRX XLATING DUAL 3ST 6TSSOP	1	SOT363-6N								
U37A, U37B	LT1764EQ-1.8#PBF-ND	LT1764EQ-1.8#PBF-ND	IC REG LINEAR 1.8V 3A 5DDPAK	2	5-DDPAK								
U39	LT1764EQ-3.3#PBF-ND	LT1764EQ-3.3#PBF	IC REG LINEAR 3.3V 3A 5DDPAK	1	5-DDPAK	Analog Devices / Linear Technology							
U40A, U40B	LT1529CQ-5#PBF-ND	LT1529CQ-5#PBF	IC REG LINEAR 5V 3A 5DDPAK	2	5-DDPAK	Analog Devices / Linear Technology							
U41A, U41B	ADP7118AUJZ-R7-ND	ADP7118AUJZ-R7	IC REG LINEAR 200MA TSOT23-5	2	TSOT-23	Analog Devices							
U42A, U42B	ADP7182AUJZ-R7-ND	ADP7182AUJZ-R7	IC REG LINEAR 200MA TSOT	2	TSOT-23	Analog Devices							
U43	296-29537-1-ND	TPS2051C	IC USB PWR SW 1CH 0.5A SOT23-5	1	SOT23-5	Texas Instruments					5.5V		
U44	336-3692-ND	CP2102N	IC BRIDGE USB TO UART 20QFN	1	QFN20	Silicon Labs							
U46A, U46B, U46C, U46D	ADA4522-4ARUZ-RLCT-ND	ADA4522-4		4	TSSOP-14	Analog Devices							
U47A, U47B, U47C, U47D, U48A, U48B, U48C, U48D	INA2143UA-ND	INA2143UA	IC OPAMP DIFF 150KHZ 14SOIC	8	SOIC127P600X175-14N	Texas Instruments							