

Variant:

Prototype

Designator	Fit	Qty	Comment	Description	Manufacturer	Man. P/N	Package	Supplier 1	Sup.P/N 1	Supplier 2	Sup.P/N 2
C1, C3	Fitted	2	10nF/50V/0805/10%	Chip Ceramic Capacitor X7R 0805 10nF 50V 10%	Samsung Electro-Mec	CL21B103KBCNNNC	0805	Digi-Key	1276-1078-1-ND		
C2	Fitted	1	1uF/10V/0603/10%	Chip Ceramic Capacitor X5R 0603 1uF 10V 10%	Murata Electronics N	GRM188R61A105KA61D	0603	Digi-Key	490-1543-1-ND	Farnell	1828798RL
C5	Fitted	1	10nF/25V/0402/10%	Chip Ceramic Capacitor X7R 0402 10nF 25V 10%	Murata Electronics N	GRM155R71E103KA01D	0402	Digi-Key	490-1312-1-ND	Farnell	8819734
C7, C11, C12, C13, C14, C16, C18, C19, C20, C21, C22, C23, C25, C27, C28, C29, C30, C31	Fitted	18	100nF/16V/0402/10%	Chip Ceramic Capacitor X7R 0402 100nF 16V 10%	Murata Electronics N	GRM155R71C104KA88D	0402	Digi-Key	490-3261-1-ND	Farnell	8819742
C8, C9	Fitted	2	18pF/50V/0603/5%	Chip Ceramic Capacitor C0G 0603 18pF 50V 5%	Kemet	C0603C180J5GACTU	0603	Digi-Key	399-1052-1-ND		
C15, C17	Fitted	2	4.7uF/10V/0603/10%	Chip Ceramic Capacitor X5R 0603 4.7uF 10V 10%	TDK Corporation	CGB3B1X5R1A475K055AC	0603	Digi-Key	445-7482-1-ND	Farnell	2346974
CK1, CK2, CK3	Fitted	3	600@100MHz/1A/0603	Ferrite Chip Beads SMD 0603 600@100MHz 1A	TDK Corporation	MPZ1608S601ATA00	0603	Digi-Key	445-2205-1-ND	Farnell	2393198
J1	Fitted	1	61300311121	THT Vertical Pin Header Male WR-PHD, Pitch 2.54 mm, Single Row, 3 pins	WE	61300311121		Digi-Key	732-5316-ND		
J2	Fitted	1	10118192-0001LF	Micro-USB Type-B, right-angle, horizontal receptacle	FCI	10118192-0001LF		Digi-Key	609-4613-1-ND	Farnell	1568026
J3	Fitted	1	61300211121	THT Vertical Pin Header Male WR-PHD, Pitch 2.54 mm, Single Row, 2 pins	WE	61300211121		Digi-Key	732-5315-ND		
J5	Fitted	1	61201021621	Male Box Header WR-BHD, THT, Vertical, pitch 2.54 mm, 10 pins	WE	61201021621		Digi-Key	732-2094-ND		
J6	Fitted	1	61200621621	Male Box Header WR-BHD, THT, Vertical, pitch 2.54 mm, 6 pins	WE	61200621621		Mouser	710-61200621621	Digi-Key	732-5394-ND
J7	Fitted	1	10056847-101LF	Connector edge dual female 20 pos, 0.8pitch	Amphenol ICC (FCI)	10056847-101LF		Digi-Key	609-4943-1-ND		
LD1, LD2	Fitted	2	Red	Chip LED SMD WL-SMCW, size 1206, Red, 2V, 140 deg, 150 mcd	Wurth Electronics Inc	150120RS75000	1206	Digi-Key	732-4991-1-ND		
MEC1, MEC2	Fitted	2	Jumper	Jumper with pullback, 2.54mm pitch, black	WE	609002115121		Digi-Key	732-13618-ND		
Q1	Fitted	1	FDV304P	IC MOSFET P-CH 25V 460mA SOT-23	On Semiconductor	FDV304P	SOT23-3	Digi-Key	FDV304PCT-ND		
Q2, Q3, Q4, Q5	Fitted	4	BSS138	MOSFET N-CH 50V 0.22A SOT-23	Fairchild Semiconduc	BSS138	TO-236-3, S	Digi-Key	BSS138DKR-ND	Farnell	9845330
R1	Fitted	1	100K/1%/0603	Chip Resistor 0603 100K 1% 100ppm	Vishay Dale	CRCW0603100KFKEA	0603	Digi-Key	541-100KHCT-ND	Farnell	1344361
R2, R4, R5, R6, R8, R11, R12, R13, R15, R20	Fitted	10	10K/1%/0603	Chip Resistor 0603 10K 1% 100ppm	Vishay Dale	CRCW060310K0FKEA	0603	Digi-Key	541-10.0KHCT-ND	Farnell	1469748
R3, R21, R22, R23, R24, R25	Fitted	6	1K/1%/0603	Chip Resistor 0603 1K 1% 100ppm	Vishay Dale	CRCW06031K00FKEA	0603	Digi-Key	541-1.00KHDKR-ND	Farnell	1469740
R7, R9, R16	Fitted	3	100R/1%/0603	Chip Resistor 0603 100R 1% 100ppm	Vishay Dale	CRCW0603100RFKEA	0603	Digi-Key	541-100HCT-ND	Farnell	1469752
R10	Fitted	1	12K/1%/0603	Chip Resistor 0603 12K 1% 100ppm	Vishay	CRCW060312K0FKEAC	0603	Digi-Key	541-4046-1-ND		
R14	Fitted	1	2.2K/1%/0402	Chip Resistor 0402 2.2K 1% 100ppm	Vishay Dale	CRCW04022K20FKED	0402	Digi-Key	541-2.20KLCT-ND	Farnell	1563902
TVS1, TVS2, TVS3	Fitted	3	82356050560	Chip ESD suppressor bidirectional 5V 0603	WE	82356050560	0603				
U1	Fitted	1	USBLC6-2P6	TVS 2 line, Low cap, 5V, SOT666	STMicroelectronics	USBLC6-2P6	SOT-666, SC	Digi-Key	497-5026-6-ND	Farnell	1295310
U2, U3, U5, U8, U9, U11	Fitted	6	M74VHC1GT125DT1G	IC BUFFER NON-INVERT 5.5V 5-TSOP	ON Semiconductor	M74VHC1GT125DT1G	5-TSOP	Digi-Key	M74VHC1GT125DT1GOSCT-ND		
U4	Fitted	1	FT232HL	IC HS USB TO UART/FIFO 48LQFP	FTDI	FT232HL	LQFP-48	Digi-Key	768-1101-1-ND		
U6	Fitted	1	93LC56BT-I/OT	IC EEPROM 2K SPI 2MHz SOT23-6	Microchip	93LC56BT-I/OT	SOT23-6	Digi-Key	93LC56BT-I/OTCT-ND		
U7, U10	Fitted	2	74LVC1G02GV,125	IC GATE NOR 1CH 2-INP 5-TSOP	NXP Semiconductors	74LVC1G02GV,125	SOT23-5, SC	Digi-Key	568-4834-1-ND	Mouser	771-LVC1G02GV125
XT1	Fitted	1	12MHz/Cap/4-SMD, 3.2x2.	Xtal SMD 12MHz 8pF 25ppm (-40 to 85)	NDK	NX3225SA-12MHZ-STD-CSR-6	4-SMD, 3.2	Digi-Key	644-1180-1-ND		
C24, C26	Not Fitted	0	4.7uF/10V/0603/10%	Chip Ceramic Capacitor X5R 0603 4.7uF 10V 10%	TDK Corporation	CGB3B1X5R1A475K055AC	0603	Digi-Key	445-7482-1-ND	Farnell	2346974
J4	Not Fitted	0	75915-310LF	CONN RCPT 10POS 0.1 GOLD PCB	FCI	75915-310LF	10x2.54mm				