







Part	Value	Device	Package	Description	DESCRIPTION	HEIGHT	MANUFACTURER_NAME	MANUFACTURER_PART_NUMBER	MOUSER_PART_NUMBER	MOUSER_PRICE-STOCK	FIELD12
C1	10uF	865080440002	CAPAE400X550N	Würth Elektronik 10uF 25 V dc Aluminium Electrolytic Capacitor, WCAP-ASLI Series 2000h 4 (Dia.) x 5.35mm	Würth Elektronik 10uF 25 V dc Aluminium Electrolytic Capacitor, WCAP-ASLI Series 2000h 4 (Dia.) x 5.35mm	5.5mm	Würth Elektronik	865080440002	710-865080440002	<a href="https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/865080440002?qs=0KOYDY2FL2%2FXvxJ7qSnXzw%3D%3D">https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/865080440002?qs=0KOYDY2FL2%2FXvxJ7qSnXzw%3D%3D</a>	
C2	10uF	865080440002	CAPAE400X550N	Würth Elektronik 10uF 25 V dc Aluminium Electrolytic Capacitor, WCAP-ASLI Series 2000h 4 (Dia.) x 5.35mm	Würth Elektronik 10uF 25 V dc Aluminium Electrolytic Capacitor, WCAP-ASLI Series 2000h 4 (Dia.) x 5.35mm	5.5mm	Würth Elektronik	865080440002	710-865080440002	<a href="https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/865080440002?qs=0KOYDY2FL2%2FXvxJ7qSnXzw%3D%3D">https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/865080440002?qs=0KOYDY2FL2%2FXvxJ7qSnXzw%3D%3D</a>	
C3	4.3p	GRM0335C1E4R3WA01D	CAPC0603X33N	Chip Capacitor value 4R3	Chip Capacitor value 4R3	0.33mm	Murata Electronics	GRM0335C1E4R3WA01D			
C4	4.3p	GRM0335C1E4R3WA01D	CAPC0603X33N	Chip Capacitor value 4R3	Chip Capacitor value 4R3	0.33mm	Murata Electronics	GRM0335C1E4R3WA01D			
C5	100n	EMF105B7104MVHF	CAPC1005X55N	Multilayer Ceramic Capacitors MLCC - SMD/ SMT 0402 16V 0.1uF 20% AEC-Q200	Multilayer Ceramic Capacitors MLCC - SMD/ SMT 0402 16V 0.1uF 20% AEC-Q200	0.55mm	TAIYO YUDEN	EMF105B7104MVHF	963-EMF105B7104MVHF	<a href="https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMF105B7104MVHF?qs=%252B6g0mu59x7LtSdgNoaFABQ%3D%3D">https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMF105B7104MVHF?qs=%252B6g0mu59x7LtSdgNoaFABQ%3D%3D</a>	
C6	100n	EMF105B7104MVHF	CAPC1005X55N	Multilayer Ceramic Capacitors MLCC - SMD/ SMT 0402 16V 0.1uF 20% AEC-Q200	Multilayer Ceramic Capacitors MLCC - SMD/ SMT 0402 16V 0.1uF 20% AEC-Q200	0.55mm	TAIYO YUDEN	EMF105B7104MVHF	963-EMF105B7104MVHF	<a href="https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMF105B7104MVHF?qs=%252B6g0mu59x7LtSdgNoaFABQ%3D%3D">https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMF105B7104MVHF?qs=%252B6g0mu59x7LtSdgNoaFABQ%3D%3D</a>	
C7	1u	EMK105BJ105MVHF	CAPC1005X55N	TAIYO YUDEN - EMK105BJ105MVHF - CAPACITOR, MLCC, 0402, 16V ,X5R,Q200 02AH5330	TAIYO YUDEN - EMK105BJ105MVHF - CAPACITOR, MLCC, 0402, 16V ,X5R,Q200 02AH5330	0.55mm	TAIYO YUDEN	EMK105BJ105MVHF	963-EMK105BJ105MVHF	<a href="https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMK105BJ105MVHF?qs=sBf%2Fb4nBSle1MydEN1pxPw%3D%3D">https://www.mouser.co.uk/ProductDetail/Taiyo-Yuden/EMK105BJ105MVHF?qs=sBf%2Fb4nBSle1MydEN1pxPw%3D%3D</a>	
IC1	ATSAMD21E17D-AU	ATSAMD21E17D-AU	QFP80P900X900X120-32N	ARM Microcontrollers - MCU 32TQFP IND TEMP, GREEN,1.6-3.6V,48MHz	ARM Microcontrollers - MCU 32TQFP IND TEMP, GREEN,1.6-3.6V,48MHz	1.2mm	Microchip	ATSAMD21E17D-AU	556-ATSAMD21E17D-AU	<a href="https://www.mouser.co.uk/ProductDetail/Microchip-Technology/ATSAMD21E17D-AU?qs=byeeYqUIh0MuAM%252BW362haw%3D%3D">https://www.mouser.co.uk/ProductDetail/Microchip-Technology/ATSAMD21E17D-AU?qs=byeeYqUIh0MuAM%252BW362haw%3D%3D</a>	
IC2	NCP1117LPST33T3G	NCP1117LPST33T3G	SOT230P700X180-4N	Source: Datasheet		1.8mm	ON Semiconductor	NCP1117LPST33T3G	863-NCP1117LPST33T3G	<a href="https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/NCP1117LPST33T3G?qs=kbSN2QblFfKG9A4Foh4YYg%3D%3D">https://www.mouser.co.uk/ProductDetail/ON-Semiconductor/NCP1117LPST33T3G?qs=kbSN2QblFfKG9A4Foh4YYg%3D%3D</a>	
J1	629104190121	629104190121	629104190121	WURTH ELEKTRONIK - 629104190121 - CONN, USB 2 TYPE A, RCPT, 4POS, SMT	WURTH ELEKTRONIK - 629104190121 - CONN, USB 2 TYPE A, RCPT, 4POS, SMT	mm	Würth Elektronik	629104190121	710-629104190121	<a href="https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/629104190121?qs=IBTPRtX1sU8FkkdswgHZbg%3D%3D">https://www.mouser.co.uk/ProductDetail/Wurth-Elektronik/629104190121?qs=IBTPRtX1sU8FkkdswgHZbg%3D%3D</a>	
J2	KUSBX-SMT2AP5S-B	KUSBX-SMT2AP5S-B	KUSBXSMT2AP5SB	USB Connectors A TYPE SMT BLK PLUG 1.35mm POSTS SHIELD	USB Connectors A TYPE SMT BLK PLUG 1.35mm POSTS SHIELD	4.75mm	Kycon	KUSBX-SMT2AP5S-B	806-KUSBXSMT2AP5SB	<a href="https://www.mouser.co.uk/ProductDetail/Kycon/KUSBX-SMT2AP5S-B?qs=7zcQ9RRVJlhCJlshlB7lBQ%3D%3D">https://www.mouser.co.uk/ProductDetail/Kycon/KUSBX-SMT2AP5S-B?qs=7zcQ9RRVJlhCJlshlB7lBQ%3D%3D</a>	
LED1	Green	CMD15-21VGD_TR8	LEDC3215X130N	VCC CMD15-21VGD/TR8, CMD15-21 Series Clear LED, 570 nm,, Rectangle Lens	VCC CMD15-21VGD/TR8, CMD15-21 Series Clear LED, 570 nm,, Rectangle Lens	1.3mm	Visual Communications Company	CMD15-21VGD/TR8	606-CMD15-21VGD/TR8	<a href="https://www.mouser.com/Search/Refine.aspx?Keyword=606-CMD15-21VGD%2FTR8">https://www.mouser.com/Search/Refine.aspx?Keyword=606-CMD15-21VGD%2FTR8</a>	
LED2	Red	APT1608EC	LEDC1608X85N	Standard LEDs - SMD HI EFF RED WTR CLR	Standard LEDs - SMD HI EFF RED WTR CLR	0.85mm	Kingbright	APT1608EC	604-APT1608EC	<a href="https://www.mouser.co.uk/ProductDetail/Kingbright/APT1608EC?qs=y3UkhjaxUTbvcINjaB1ATQ%3D%3D">https://www.mouser.co.uk/ProductDetail/Kingbright/APT1608EC?qs=y3UkhjaxUTbvcINjaB1ATQ%3D%3D</a>	
R1	1K	RK73H1ETTP1001F	RESC1005X40N	Thick Film Resistors - SMD 1/16watts 1Kohms 1%	Thick Film Resistors - SMD 1/16watts 1Kohms 1%	0.4mm	KOA Speer	RK73H1ETTP1001F	660-RK73H1ETTP1001F	<a href="https://www.mouser.com/Search/Refine.aspx?Keyword=660-RK73H1ETTP1001F">https://www.mouser.com/Search/Refine.aspx?Keyword=660-RK73H1ETTP1001F</a>	
R2	1K	RK73H1ETTP1001F	RESC1005X40N	Thick Film Resistors - SMD 1/16watts 1Kohms 1%	Thick Film Resistors - SMD 1/16watts 1Kohms 1%	0.4mm	KOA Speer	RK73H1ETTP1001F	660-RK73H1ETTP1001F	<a href="https://www.mouser.com/Search/Refine.aspx?Keyword=660-RK73H1ETTP1001F">https://www.mouser.com/Search/Refine.aspx?Keyword=660-RK73H1ETTP1001F</a>	
U1	FSUSB42MUX	FSUSB42MUX	SOP50P490X110-10N	ON SEMICONDUCTOR - FSUSB42MUX - USB SWITCH, DUAL, DPDT, MSOP-10	ON SEMICONDUCTOR - FSUSB42MUX - USB SWITCH, DUAL, DPDT, MSOP-10	1.1mm	ON Semiconductor	FSUSB42MUX	512-FSUSB42MUX	<a href="https://www.mouser.co.uk/ProductDetail/ON-Semiconductor-Fairchild/FSUSB42MUX?qs=yA6kp8fx8Y59RAD4iJDRWg%3D%3D">https://www.mouser.co.uk/ProductDetail/ON-Semiconductor-Fairchild/FSUSB42MUX?qs=yA6kp8fx8Y59RAD4iJDRWg%3D%3D</a>	
X1	CMR200T32768DZBT	CMR200T32768DZBT	CMR200T	Crystals 32.768 KHz 6 pF REFLOWABLE SMD	Crystals 32.768 KHz 6 pF REFLOWABLE SMD	mm	Citizen Finetech Miyota	CMR200T32768DZBT	695-CMR200T32768DZBT	<a href="https://www.mouser.co.uk/ProductDetail/Citizen-FineDevice/CMR200T32768DZBT?qs=byeeYqUIh0Mb0cbDrw7%2F1Q%3D%3D">https://www.mouser.co.uk/ProductDetail/Citizen-FineDevice/CMR200T32768DZBT?qs=byeeYqUIh0Mb0cbDrw7%2F1Q%3D%3D</a>	