Comment	Description	Manufacturer Part Number	Octopart URL	Designator	Quantity	DNP
			https://octopart.c om/esp32-wrover-			
ESP32-WROVER-E	Rx Txrx Mod Wifi	ESP32-WROVER-E	e+%288mb%29- espressif+systems-			
(8MB) Everlight	Pcb Trace SMD Ambient Light	(8MB)	108216292	A1	1	
EAAPMST3923A2	Sensor	EAAPMST3923A2	https://octopart.c	A2	1	
			om/0603yd105kat2 a-			
	CAP CER 1UF 16V		avx+interconnect +%2F+elco-	C1, C2, C3, C4, C5,		
1uF Samsung Electro-	10% X5R 0603 Cap Ceramic 22uF		46506197	C10, C13	7	
Mechanics CL21A226MOCLRN	16V X5R 20% SMD 0805 85°C	CL21A226MOCLRN				
C	Cardboard T/R	C		C6, C8, C12, C14	4	
	Multilayer Ceramic Capacitors (High					
	dielectric type), 25V, 0.022 uF, ±		https://octopart.c om/tmk105bj223kv			
Taiyo Yuden TMK105BJ223KV-F	10 %, 0402, X5R/B, RoHS	TMK105BJ223KV-F	f-taiyo+yuden- 23272753	C7		
TIWKTOSDSZZSKY-I	Ceramic capacitor SMD-0402 100nF	TIVIKTO3BJ223KV-1	https://octopart.c	C/		
Samsung CL05A104KA5NNN	/25V X5R# K +- 10%, Samsung,	CL05A104KA5NNN	om/cl05a104ka5nn			
C C C C C C C C C C C C C C C C C C C	RoHS	C	nc-samsung- 19018960	C9, C11	2	
	Address Led		https://octopart.c om/601000200-			
Seeed Studio 601000200	Discret Serial R/g/b	601000200	seeed+studio- 88826571	D1, D2	2	
JST (JAPAN SOLDERLESS			https://octopart.c om/b5b-xh-			
TERMINALS) B5B- XH-A(LF)(SN)	CONN HEADER XH TOP 5POS 2.5MM	B5B-XH-A(LF)(SN)	a%28If%29%28sn %29-jst-3990208	J1	1	
			https://octopart.c			
Global Connector	Board to Board,		om/bg302-05-a-l-g global+connector			
Technology BG302- 05-A-L-G	Receptacle, 5 Position, 1ROW	BG302-05-A-L-G	+technology- 22009391	J2	1	
	SFV24R-3STE1HLF-		https://octopart.c			
Amphenol ICC / FCI SFV24R-	FFC/FPC Conn Rohs Compliant:		om/sfv24r-3ste1hlf- amphenol+icc+%2			
3STE1HLF	Yes	SFV24R-3STE1HLF	F+fci-22289564	J3	1	
	Conn Unshrouded		https://octopart.c			
Adam Tech PH1-05-	Header HDR 5 POS 2.54mm Solder ST		om/ph1-05-ua- adam+tech-			
UA	Thru-Hole	PH1-05-UA	7873130	J4, J5	2	DNP
	Single Port 5 Contact					
	Horizontal Right Angle Micro B USB					
10118194-0001LF	2.0 Receptacle		https://octopart.c	К1	1	
			om/mmbt3904%2C 215-			
MMBT3904	TRANS NPN 40V 0.2A SOT23		nxp+semiconduct ors-10477684	Q1, Q2	,	
WWW.D13304	2N7002NXAK - 60 V, single N-		https://octopart.c om/2n7002nxakr-	Q1, QL		
Nexperia 2N7002NXAKR	channel Trench MOSFET	2N7002NXAKR	nexperia- 103147780	Q3, Q4	2	
LITTOOLITTOOLIT	RES SMD 10K	LITT OULITOURS.	http://octopart.co	R1, R2, R5, R6, R7,	-	
10k	OHM 5% 1/10W 0603	RC1608J103CS	m/rc1608j103cs- samsung-2405586	R8, R9, R14, R15, R16, R17, R18, R19	13	
TOK	YAGEO (PHYCOMP)	1000010303	Julianing 2403300	10, 117, 110, 113		
	RC0603JR-0727RL RESISTOR, RC21		http://octopart.co m/rc0603jr-0727rl-			
27R	0603 27R		yageo-40953074	R3, R4	2	
	Res Thick Film 0402 1K Ohm 5%		https://octopart.c			
Stackpole	0.063W(1/16W) ±100ppm/C Pad		om/rmcf0402jt1k0 0-			
Electronics RMCF0402JT1K00	SMD Automotive T/R	RMCF0402JT1K00	stackpole+electro nics-19212695	R10, R13, R20	3	
	0.2 Ohm 1206		https://octopart.c			I
			nttps://octopurt.c			
Ohmite KDV12DR200ET	0.5% 0.5W Rohs Compliant: Yes	KDV12DR200ET	om/kdv12dr200et- ohmite-103743653	R11, R12	2	
	Compliant: Yes Switch Tactile N.O.	KDV12DR200ET	om/kdv12dr200et- ohmite-103743653 https://octopart.c	R11, R12	2	
KDV12DR200ET C&K Components	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing		om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+sl50+s mtr+lfs-	R11, R12	2	
KDV12DR200ET C&K Components	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R		om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+sl50+s	R11, R12	2	
KDV12DR200ET C&K Components	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed		om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+sI50+s mtr+Ifs- c%26k+componen ts-100131649 http://octopart.co	R11, R12	2	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K-	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator -	PTS636 SL50 SMTR LFS	om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc-	SW1	2	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K-	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - SOT23-5 MIC5392 Series 2.8		om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1-	R11, R12	1	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K-	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - 50723-5 MIC5392 Series 2.8 / 1.8 V 150 mA Surface Mount	PTS636 SL50 SMTR LFS	om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc-	SW1	1	
C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K-3.3TRG1	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - SOT23-5 MIC5392 Series 2.8 /1.8 V 150 mA	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-	om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc-	SW1	1	
C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12/DC 12/T9 MbD 7/R APZ11Z Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - SOT22-5 VISON CONTROL OF TACTION OF SUFFICE OF TACTION OF Surface Mount Dual LDO Regulator - TDFN- 6	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1	om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc-	SW1	1	
C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MIC5392 Future Future Future	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05PST Rectangular Button Gull Wing 0.127N SMD 7/R AP2112 Series 0.6 A 3.2 V Fixed Output SMT LDO Linear Regulator - SOT22-5 VISOR SW	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-	om/kdv/2dr200et- ohmite-103743653 https://octopart.com/pts636+s150+s mtr-1fs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1 diodes+inc- 30954557	SW1	1	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Future Technology Devices	Compliant: Ves Switch Tactile N.D. SPST Rectangular Button Gull Wing 0.05A 12/VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - SOT23-5 MIC5392 Series 2.8 /1.8 V 150 M.S Surface Mount Dual LDO Regulator - TDFN- 6 USB Full Speed to Full Handshake UJRFT with USB	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR	om/kdv12dr200et- ohmite-103743653 https://octopart.c om/pts636+s150+s mtr+lfs- c%26k+componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc-	SW1	1 1	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Future Technology Devices	Compliant: Ves Switch Tartille N.D. SPST Rectangular Button Gull Wing 0.05A 12/VDC 1.27N SMD T/R AP2112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator - SOT23-5 MIC5392 Series 2.8 /1.8 V 150 M.S Surface Mount Dual LDO Regulator - TDFN- 6 USB Full Speed to Full Handshake UART with USB Charger Detection	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR	om/kdv12dr200es- ohmite-1037420es- ohmite-1037420es- ohmite-1037420es- om/trus-150-ses- mr-15s- cv26k-componen- tr-10031649 http://octopart.co- m/ap2112k-3.3trg1 diodes+inc- 30954557	U1 U2	1 1 1	
KDV12DR200ET C&K Components PTS636 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Future Technology Devices	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12/9/C 0	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR	om/kdv/2dr200es- om/kdv/2dr200es- https://octopart.com/pts636+s150+s mr+1fs- c%26k-componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc- 30954557 http://octopart.co m/t231xs-4-ftdi- 22061507	U1 U2	1 1	
KOV12DR200ET C&K Components PTS436 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Technology Devices International PTDI) F7231XS-R	Compliant: Ves Switch Tartille N.O. SPST Rectangular Button Guil Wing 0.05A 12VDC 1.2ZN SMD 17R AP211Z Series 0.6 A 3.3 V Fixed Output SMT LDO SUFFACE STORM LDO SUFFACE	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR FT231XS-R	om/kdv/2dr200ets https://octopart.com/sts26s-slSon-slS	U1 U2	1 1 1	
CALK Components PTS636 SL50 SMTR PS Diodes AP2112K- 3.3TRG1 MICS392 Future Technology Devices (FTD0 FT231XS-R	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.2ZN SMD 17R APE112 Series 0.6 A 3.3 V Fixed Output SMT LDO LIOTAL MICS302 Saries 2.8 / 1.8 V 150 mA Surface Mount Dual LDO Regulator - TDFN-6 Compliant SMT LOO LOOTAL Surface Mount Compliant Co	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR	om/kdv/2dr200es- om/kdv/2dr200es- https://octopart.com/pts636+s150+s mr+1fs- c%26k-componen ts-100131649 http://octopart.co m/ap2112k-3.3trg1- diodes+inc- 30954557 http://octopart.co m/t231xs-4-ftdi- 22061507	SW1	1 1 1	
KOV12DR200ET C&K Components PTS436 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Technology Devices International PTDI) F7231XS-R	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.22N SMD T/R APE112 Series 0.6 A 3.3 V Fixed Output SMT LDO Linear Regulator Linear Regulator Linear Regulator Linear Regulator - TDFN-6 Surface Mount Dual LDO Linear Regulator - TDFN-6 Carrier State Large Wing Large L	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR FT231XS-R	om/kdv/2dr200ets https://octopart.com/sts26s-slSon-slS	SW1	1 1 1	
KOV12DR200ET CAV Components PPS636 SL90 SMTR US Diodes AP2112K- MIC5392 Future Fu	Compliant: Yes Switch Tactile N.O. SPST Rectangular Button Guil Wing Button Guil Wing A 324 Fixed Output SMT LDO Linear Regulator Linear Regulator Linear Regulator SOT23-5 WICS392 Series 2.8 / 1.8 V 150 mA Data Linear Regulator Linear Regulator ST 100 MC	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT- TR FT231XS-R STSPIN220	om/kdv/2dr200est- om/kdv/2dr200est- om/kdv- om	U1 U2 U3 U4	1 1 1	
KOV12DR200ET CGMC Components PSS656 SL90 SMTR US Diodes AP2112K- MICS392 Future F	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 005A 12/90C 005A 12/9	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT-TR FT231XS-R	om/kdv/2dr2008-50 https://octopart.com/pts656-sl50+s com/pts656-sl50+s cm/gts656-sl50+s cm/gts64-sl50+s cm/g2612-ks-33-rg1 diodes+inc 30954557 http://octopart.com/rt231ss-rftdi- 22061507 https://octopart.com/rt231ss-rftdi- 22061507 https://octopart.com/rt231ss-rftdi- 22061507 https://octopart.com/rt231ss-rftdi- 22061507	SW1	1 1 1	
KOV12DR200ET C&K Components PTS436 SL50 SMTR LFS Diodes AP2112K- 3.3TRG1 MICS392 Future Technology Devices International PTDI) F7231XS-R	Compliant: Ves Switch Tactile N.O. SPST Rectangular Button Gull Wing 0.05A 12VDC 1.22N SMD 7/R AP211Z Series 0.6 A 3.3 N 15MT 10A A 3.1 N 15MT 10A MICS392 Series 2.8 7.1.8 V 150 mA MICS392 Series 2.8 7.1.8 V 150 mA Surface Mount Dual LDO Regulator - TDFN-6 SWITCH 10A MICS392 Series 2.8 MICS392 Ser	PTS636 SL50 SMTR LFS AP2112K-3.3TRG1 MIC5392-MGYMT- TR FT231XS-R STSPIN220	om/kdv/2dr200est- om/kdv/2dr200est- om/kdv- om	U1 U2 U3 U4	1 1 1	









