

POP Number: POP-000055-901
 POP Name: Stand Alone Murata Radio
 POP Revision: A
 Approval Date: 23-Sep-21

ALERTLABS_PN	Description	Qty	Value	Parts	MFG	MFG_PN	Package	PART_TYPE	POP	MAX_HEIGHT
PCB-000042-901		1			PCBWay					
SOM-000014-001	Module LoRa 868-915MHz with STM32L0B2	1	ALRM001	U1	Alert Labs	ALRM001	LGA575080P2X2_1250X1160X176	SMD	yes	1.76mm
CAP-000001-001	CAP CER 100NF 10% 16V X7R M1005	5	100nF	C4, C8, C11, C12, C13	muRata	GRM155R71C104K88	CAPC1005X055N_EIA0402	SMD	yes	0.55mm
CAP-000010-001	CAP CER 1UF 10% 16V X7R M2012	2	1.0uF	C1, C2	muRata	GRM21BR71C105KA01	CAPC2012X135N_EIA0805	SMD	yes	1.35mm
CAP-000031-001	CAP AL 680UF 20% 16V D1030L1050	1	680uF	C3	Wurth Elektronik	865060357010	CAPAE1030X1050N	SMD	yes	10.5mm
CAP-000033-001	CAP CER 22UF 20% 6V3 X5R M2012	3	22uF	C5, C6, C7	muRata	GRM21BR60J226ME39	CAPC2012X135_EIA0805	SMD	yes	1.4mm
CAP-000035-001	CAP CER 1uF 10% 6.3V X7R M1005	2	1.0uF	C9, C10	muRata	GRM155R70J105KA12	CAPC1005X055N_EIA0402	SMD	yes	0.55mm
CAP-000051-001	CAP CER 6.8PF Tolerance-0.1pF 50V COG M1005	1	6.8pF	C14	muRata	GJM155SC1H6R8B01#	CAPC1005X055N_EIA0402	SMD	yes	0.55mm
CON-000106-001	CONN HDR 1x4 Keyed Shroud 2mm Top Entry SUCTION CAP SMD ALT-CON-000106-001	1	B4B-PH-SM4-TBT(LF)(SN)	J4	JST Sales	B4B-PH-SM4-TBT(LF)(SN)	CONN_JST_B4B-PH-SM4-TB	SMD	yes	6.6mm
CON-000113-001	CONN Banana Jack Standard Thru-hole H-2p36mm L-8p9mm	2	575-8	J1, J2	Keystone Electronics	575-8	CONN_KEYSTONE_575-X	Thru-Hole	yes	2.36mm
DIO-000014-001	TSS UNI 3V3-VRWM 4V8-VBR 9V0-VC SC0923	4	ESD9L3.35TSG	D2, D3, D4, D5	ON Semiconductor	ESD9L3.35TSG	SC09L10090A0A_UNI-SC0923-2N	SMD	yes	0.4mm
FIL-000008-001	Ferrite Bead 1000R@100MHz 450mA M1608	2	1000R@100MHz	FILL, FIL2	muRata	BLM18AG102SN1	BEADCL608X045N_EIA0603	SMD	yes	0.95mm
IND-000026-001	IND WW RF 2.2nH Tolerance-0.1nH 2530mA 22mOhm 15.5GHz M1005	1	2.2nH	L1	muRata	LQW15AN2N28B0W	INDC1005X035N_EIA0402	SMD	yes	0.6mm
LED-000005-001	LED RGB Common Anode Top-Fire SMD M1616	1	LTST-C19HE1WT	D1	Lite-ON Inc	LTST-C19HE1WT	LEDCL60X160X035-4	SMD	yes	0.35mm
RES-000001-001	RES 0R OHM JUMPER THICK FILM SMD M1005	2	0R	R8, R9	Yageo	RC0402FR-070RL	RESCL005X035N_EIA0402	SMD	yes	0.4mm
RES-000003-001	RES 10K OHM 1% THICK FILM SMD M1005	5	10K	R4, R5, R6, R11, R12	Yageo	RC0402FR-0710KL	RESCL005X035N_EIA0402	SMD	yes	0.4mm
RES-000041-001	RES 255R OHM 1% THICK FILM SMD M1005	2	255R	R2, R3	Yageo	RC0402FR-07255RL	RESCL005X035N_EIA0402	SMD	yes	0.4mm
RES-000042-001	RES 470R OHM 1% THICK FILM SMD M1005	1	470R	R1	Yageo	RC0402FR-07470RL	RESCL005X035N_EIA0402	SMD	yes	0.4mm
SWC-000003-001	SWITCH MICRO SPST NO 32VDC 50MA H-2.5mm F-4N GND-TAB TOP-ACTUATED SMD	1	KMR442GLFS	S1	C&K	KMR442GLFS	SW_CK-COMPONENTS_XMR_GROUND	SMD	yes	2.5mm