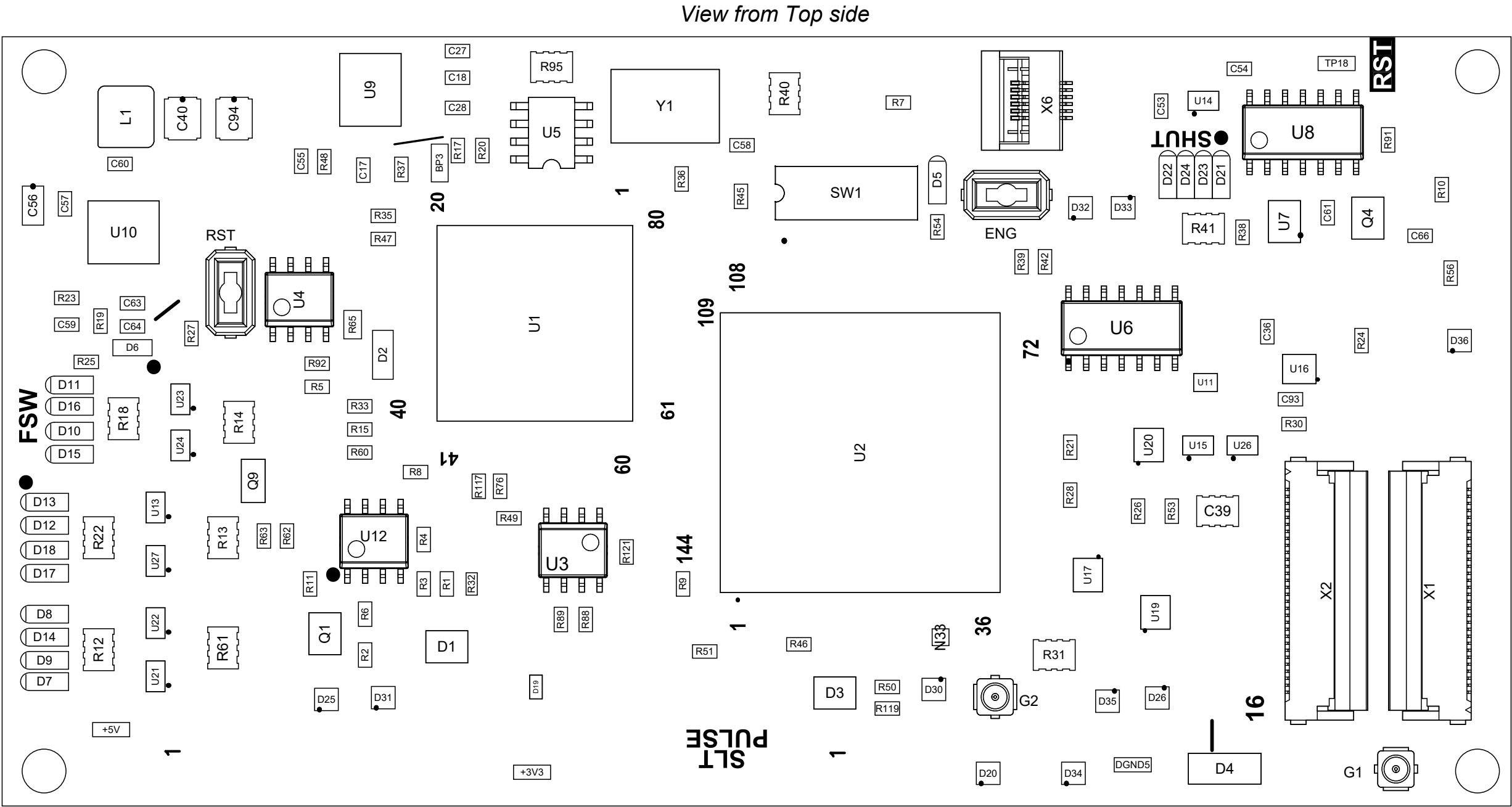


PREVIOUS		ECR	CHANGE DETAILS	DRAWN	CHECKED	APPROVED
ISS:N/A	ECR: 05960	05960	RELEASED	NSD		



NOTES:
ALL ASSEMBLED PCB'S SHALL BE MANUFACTURED TO CLASS 2 OF IPC-A-610 (CURRENT ISSUE) AND BE HANDLED ACCORDING TO E.S.D. ASSOC. STANDARD ANSI/ESD-S-20.20 (CURRENT ISSUE) UNLESS OTHERWISE STATED

ELLEX APPROVED EQUIVALENTS MAY BE FITTED


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	SCALE	TITLE			
	2:1	PASSY FIRE CONTROL V2			
	GRP No	DRG No.	ISS	SIZE	SHEET No.
	35	32430	5.0	A3	1 of 4

PREVIOUS		ECR	CHANGE DETAILS	DRAWN
ISS:N/A	ECR: 05960	05960	RELEASED	NSD

Bill Of Materials - Top Side

Full Description	Quantity	Designator	Manufacturer 1	Manufacturer Part Number 1
Capacitor 1uF 10%, 35V, X7R Ceramic, 0603	3	C55, C57, C64	Kyocera AVX	18121C104KAT2A
Capacitor, 3n3 10%, 50V, X7R Ceramic, 0603	1	C66	Yageo	CC0603KRX7R9BB332
Capacitor, 4n7 10%, 50V, X7R, 0603	1	C63	Yageo	CC0603KRX7R9BB472
Capacitor, 22pF 5%, 50V, NP0/C0G, SMD0603	1	C59	Yageo	CC0603JRNPO9BN220
Capacitor, 22uF 20%, 10V, X5R, 1210	2	C40, C94	TDK	C3225X5R1C226M250AA
Capacitor, 47n +/- 10%, 50V, X7R, SMD0603	1	C36	KEMET	C0603C473K5RACTU
Capacitor, 47u 20%, 25V, X5R, 1206	1	C56	TDK	C3216X5R1E476M160AC
Capacitor, 100n +/- 10%, 16V, X7R Ceramic, SMD0603	9	C17, C18, C27, C28, C53, C54, C58, C60, C61	Yageo	CC0603KRX7R7BB104
Capacitor, 100n +/- 10%, 16V, X7R Ceramic, SMD0603	1	C93	Yageo	CC0603KRX7R7BB104
Capacitor, Array, 47nF 10%, 25V, 4 isolated, X7R 1206	1	C39	Yageo	CA0612KRX7R8BB473
Connector, Coaxial, Jack, Male Pin, 50R, Miniature SMT U.FL (UMCC)	2	G1, G2	TE Connectivity AMP	1909763-1
Connector, FPC, 6-Way, ZIF, 0.5mm pitch, Bottom Contact, Right Angle	1	X6	Würth Electronics	687106149022
Connector, FPC, 30 Way, Socket, 0.5mm Pitch, Right Angle, ZIF, Locking, SMT	2	X1, X2	Omron	XF2M-3015-1A
Connector, Testpoint, 1.0mm Loop, SMT	4	+3V3, +5V, DGND5, TP18	Keystone Electronics	5015
Crystal, Oscillator, 7.3728MHz, QSMO-4200 Series	1	Y1	CTS	CB3LV-3I-7M3728
Diode, BAT54S, Dual Schottky, Series connected, SOT23	1	D3	STMicroelectronics	BAT54SFILM
Diode, MCL4148, Small Signal, Fast Switching, If = 50mA, Vrrm = 100V, Micro Melf	1	D2	Vishay Semiconductors	MCL4148-TR
Diode, SD2010S040S3R0, Schottky, 3A, 40V, SMA	1	D4	Kyocera AVX	SD2010S040S3R0
Diode, TVS, 1- Channel, 3V3, SOD-523	1	D19	Diodes	D1213A-01T-7
Diode, TVS, 2-Chan, 5V, SOT563	10	D20, D25, D26, D30, D31, D32, D33, D34, D35, D36	Bourns	CDSOT563-0502
IC, 25LC640-I/SN, EEPROM, 64k, Serial SPI, SOIC08	1	U5	Microchip	25LC640-I/SN
IC, ADM3202ARUZ, RS232 Transceiver, Dual, TSSOP16	1	U9	Analog Devices	ADM3202ARUZ
IC, ADM3485EARZ, RS-485 Transceiver, 3.3V, 20Mps, ESD Protected, SOIC-8	1	U3	Analog Devices	ADM3485EARZ
IC, DS1706TESA+, Supervisory Micromonitor, 3.3V 5%, SOIC 8	1	U4	Maxim	DS1706TESA+
IC, HD64F2138AVFA10, Microcontroller, 16-bit, PQFP80 14x14	1	U1	Renesas	HD64F2138AVFA10
IC, LCMXO2-7000HC-4TG144C, FPGA, 3432 Macrocells, MachXO2, TQFP144	1	U2	Lattice Semiconductor	LCMXO2-7000HC-4TG144C
IC, LMV358MX/NOPB, Op-Amp, Dual, General Purpose, Low Voltage, Rail to Rail, SO-8	1	U12	Texas Instruments	LMV358MX/NOPB
IC, MC74HC08ADG, Logic Gate, AND, Quad, SOIC14	2	U6, U8	ON Semiconductor	MC74HC08ADG
IC, SN74LVC1G08DRLR, Single AND Gate, SOT-5	1	U11	Texas Instruments	SN74LVC1G08DRLR
IC, SN74LVC2G08DCU, Dual AND Gate, VSSOP-8	3	U16, U17, U19	Texas Instruments	SN74LVC2G08DCUR
IC, SN74LVC2G14DCK, Inverter, Dual, Schmitt, SC-70	9	U13, U14, U15, U21, U22, U23, U24, U26, U27	Texas Instruments	SN74LVC2G14DCKR
IC, SN74LVC2G32DCU, OR Gate, Dual, VSSOP-8	1	U20	Texas Instruments	SN74LVC2G32DCUR
IC, STM1061N31WX6F, Voltage Detector, 3.1V, SOT-23	1	U7	STMicroelectronics	STM1061N31WX6F
IC, TPS54325PWP, Regulator, Adjustable, 2A, HTSSOP14	1	U10	Texas Instruments	TPS54325PWP
IC, ZXRE125CFTA, Reference, Precision, 1.22V 0.5%, SOT-23	1	D1	Diodes Zetex	ZXRE125CFTA
Inductor, 3.3uH +/- 20%, 3.5A, 4.5mm Square, Shielded, SMD	1	L1	Bourns	SRP4020TA-3R3M
LED, RED, 63mcd @ 20mA, SM0603	17	D5, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D21, D22, D23, D24	Rohm	SML-D12U8WT86
LED, RED, 63mcd @ 20mA, SM0603	1	D6	Rohm	SML-D12U8WT86
Resistor, 1k5 +/- 1%, 0.1W, SMD0603	2	R88, R89	Yageo	RC0603FR-071K5L
Resistor, 1K +/- 1%, 0.1W, SMD0603	9	R11, R15, R26, R36, R37, R38, R48, R53, R54	Yageo	RC0603FR-071KL
Resistor, 1M0 +/-1%, 0.1W, SMD0603	1	R4	Yageo	RC0603FR-071ML
Resistor, 2K2 +/- 1%, 0.1W, 0603	4	R21, R24, R28, R30	Yageo	RC0603FR-072K2L
Resistor, 4K7 +/- 1%, 0.1W, SMD0603	4	R19, R50, R76, R117	Yageo	RC0603FR-074K7L
Resistor, 10k7 1%, 0.1W, Thick Film, 0603	1	R92	Yageo	RC0603FR-0710K7L
Resistor, 10k 1%, 0.1W, 0603	1	R32	Vishay	CRCW060310K0FKEA
Resistor, 10k, 0.1W, 1%, SMD0603	23	R2, R6, R7, R8, R9, R10, R17, R20, R27, R33, R35, R39, R42, R45, R46, R47, R49, R51, R56, R62, R63, R119, R121	Yageo	RC0603FR-0710KL
Resistor, 10R +/- 1%, 0.125W, SMD0805	1	R65	Yageo	RC0805FR-0710RL
Resistor, 22K 1%, 0.1W, SMD0603	2	R3, R25	Yageo	RC0603FR-0722KL
Resistor, 100K 1%, 0.1W, SMD0603	2	R5, R91	Yageo	RC0603FR-07100KL
Resistor, 100R +/- 1%, 0.1W, SMD0603	1	R60	Yageo	RC0603FR-07100RL
Resistor, 121k 1%, 0.1W, SMD0603	1	R23	Yageo	RC0603FR-07121KL
Resistor, 560R 1%, 0.1W, Thick Film, 0603	1	R1	Yageo	RC0603FR-07560RL
Resistor, Array ,10k +/- 1%, 63mW, 4 Isolated, Concave, 1206	4	R13, R14, R31, R95	Yageo	TC164-FR-0710KL
Resistor, Array, 1K +/- 1 %, 65mW, 4 Isolated, 1206	5	R12, R18, R22, R40, R41	Yageo	TC164-FR-071KL
Resistor, Array, 100R +/- 1%, 0.063W, Quad, Concave,1206	1	R61	Yageo	TC164-FR-07100RL
Switch, Sliding, 8-Way, SPST, DIP, 1.27mm Pitch, 6.7mm Wide, SMT	1	SW1	Multicomp	MCHDS-08-T
Switch, Tactile Pushbutton, SPST, 6.1mm x 3.7mm, 1.57N Operating Force, SMT	2	ENG, RST	Alps Electric	SKQYAAE010
Transistor, BC817-25, Small Signal, General Purpose, Ic = 500mA, Vceo=45V, Pt = 300mW, NPN, SOT-23	1	Q4	ON Semiconductor	BC817-25LT1G
Transistor, BC817DS, Dual Small Signal, General Purpose, NPN, Ic = 500mA, Vceo=45V, Pt = 600mW, SOT-457	1	Q9	Nexperia	BC817DS,115
Transistor, BCX17,215, PNP, General Purpose, Ptot = 250mW, IC = 50mA, Vceo = 45V, SOT23	1	Q1	Nexperia	BCX17,215

	SCALE 2:1	TITLE PASSY FIRE CONTROL V2			
	GRP No 35	DRG No. 32430	ISS 5.0	SIZE A3	SHEET No. 2 of 4

PREVIOUS		ECR	CHANGE DETAILS	DRAWN
ISS:N/A	ECR: 05960	05960	RELEASED	NSD

Bill Of Materials - Bottom Side

Full Description	Quantity	Designator	Manufacturer 1	Manufacturer Part Number 1
Capacitor 1uF 10%, 35V, X7R Ceramic, 0603	8	C41, C42, C43, C44, C45, C46, C47, C48	Kyocera AVX	18121C104KAT2A
Capacitor, 10n +/- 10%, 25V, X7R, SMD0603	4	C4, C5, C6, C7	Yageo	CC0603KRX7R8BB103
Capacitor, 10n +/- 10%, 25V, X7R, SMD0603	16	C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87	Yageo	CC0603KRX7R8BB103
Capacitor, 10uF -20/+80%, 35V, Y5V Ceramic, 1206	8	C15, C19, C20, C21, C22, C51, C52, C62	Murata	GRT31CC8YA106ME01L
Capacitor, 47n +/- 10%, 50V, X7R, SMD0603	3	C35, C95, C97	KEMET	C0603C473K5RACTU
Capacitor, 100n +/- 10%, 16V, X7R Ceramic, SMD0603	30	C1, C2, C3, C8, C11, C12, C13, C14, C16, C23, C24, C25, C26, C29, C30, C32, C33, C34, C37, C38, C49, C50, C69, C70, C71, C88, C89, C91, C92, C98	Yageo	CC0603KRX7R7BB104
Capacitor, 100n +/- 10%, 16V, X7R Ceramic, SMD0603	1	C96	Yageo	CC0603KRX7R7BB104
Capacitor, 100pF 5%, 50V, NP0 Ceramic, 0603	2	C9, C10	Yageo	CC0603JRNPO9BN101
Capacitor, 180pF 5%, 100V, NPO, 0603	3	C99, C100, C101	Yageo	CC0603JRNPO0BN181
Capacitor, 470uF , 20%, 25V, Electrolytic, Low ESR, F Case	2	C65, C90	Panasonic	EEE-1AA221P
Capacitor, Array, 47nF 10%, 25V, 4 isolated, X7R 1206	1	C31	Yageo	CA0612KRX7R8BB473
Connector, Mini-CT, Header, 6-Way, 1.5mm Pitch, Right Angle	1	X60	TE Connectivity	292206-6
Connector, MTA100, 5-Way, Right Angled Header, Locking Ramp, 2.54mm Pitch,	1	X7	TE Connectivity	640457-5
Connector, PH Shrouded Header, 2 Way, Right Angle, 2mm Pitch, PCB Mount	1	X37	JST	S2B-PH-K-S(LF)(SN)
Connector, PH, 5 Way, Header, Shrouded, 2mm Pitch, Right Angle, SMD	1	X9	JST	S5B-PH-SM4-TB(LF)(SN)
Connector, PH, 6-Way, Header, Shrouded, 2.0mm Pitch, Right Angle, SMT	1	X8	JST	S6B-PH-SM4-TB(LF)(SN)
Connector, PH, 15-Way, Header, Shrouded, 2.0mm Pitch, Vertical, PCB Mount	1	X3	JST	B15B-PH-K-S(LF)(SN)
Connector, PH, 16-Way, Header, Shrouded, 2.0mm Pitch, Vertical, PCB Mount	1	X4	JST	B15B-PH-K-S(LF)(SN)
Connector, Testpoint, 1.0mm Loop, SMT	1	DGND2	Keystone Electronics	5015
Connector, ZH, 4-Way, Right Angled, 1.5mm Pitch, SMT	1	X11	JST	S4B-ZR-SM4A-TF(LF)(SN)
Connector, ZH, 9-Way, Right Angled, 1.5mm Pitch, SMT	1	X5	JST	S9B-ZR-SM4A-TF(LF)(SN)
Diode, TVS, 2-Chan, 5V, SOT563	3	D27, D28, D29	Bourns	CDSOT563-0502
IC, LD1117DT33C, Regulator, 3.3V, 0.8A, TO-252 (DPAK)	1	U25	STMicroelectronics	LD1117DT33CTR
IC, SN74LVC2G14DCK, Inverter, Dual, Schmitt, SC-70	1	U29	Texas Instruments	SN74LVC2G14DCKR
Inductor, 10uH 20%, 4.5A, shielded, 6.5mm sq, IHLP series	1	L2	Vishay Dale	IHLP2525EZER100M01
Label, Serial Number, 8.0mm x 8.0mm, Self-Adhesive, Polyester, White	1	SL1	TE Connectivity	WP-080080-10-9
Resistor, 0 ohm, 0.1W, Jumper SMD0603	1	R52	Yageo	RC0603JR-070RL
Resistor, 10k, 0.1W, 1%, SMD0603	1	R120	Yageo	RC0603FR-0710KL
Resistor, 100R +/- 1%, 0.1W, SMD0603	4	R43, R44, R66, R67	Yageo	RC0603FR-07100RL
Resistor, 120R +/- 1%, 0.1W, SMD0603	3	R85, R86, R87	Vishay	CRCW0402120RFKED
Resistor, Array ,10k +/- 1%, 63mW, 4 Isolated, Concave, 1206	2	R79, R80	Yageo	TC164-FR-0710KL
Resistor, Array, 100R +/- 1%, 0.063W, Quad, Concave,1206	3	R16, R29, R70	Yageo	TC164-FR-07100RL