





















R77 C44 R76

Comment	RJ45 SMT Right	Designator	Footprint	LibRef	Quartity
RJSSE-5381-02 XTAL	Angle x2 Crystal Oscillator	18.432 MHz (20pF)	RJSSE-5381-02	RJSSE-5381-02 XTAL	
	CAP CER 10000PF		BCY-W2/D3.1		
10nF	100V X7R 0803	C1, C5, C15, C19 C2, C16, C17, C18, C22, C23, C24, C25, C26, C29, C30, C31, C32,	0603	CP_10nF 0603	
100nF	CAP CER .10UF 50V X5R 0603	C33, C34, C35, C36, C37, C38, C39, C??	0603	CP_100nF 0603	
47uF 10V	CAP CER 47uF 10V X5R 1210	сз	1210	CP_47uF 10V 1210	
16pF	CAP CER 16PF 100V 5% C0G 0603	C4	0603	CP_16pF_100V_06 03	
Cap	Capacitor	O8, C7	RAD-0.3	Cap	
Cap Semi	Capacitor (Semiconductor SIM Model)	C8, C10, C11	CAPC3216L	Cap Semi	
100nF	0603 Capacitor	C9, C40, C41, C42, C43	CC0603	100nF_CC0603	
10uE	CAP 10uF 10% 10V XSR 0805	C12, C13, C20	0805	CP 10uF 0805	
	CAP TANT 22UF			CP_TANT_22uF_3	
CP_TANT_22uF	35V 10% SMD CAP CER 4.7UF	C14, C21	6032	5V	
4u7	10V X5R 0603 CAP CER 2.2UF	C27	0603	CP_4u7 0603 CP_2u2F_10V_060	
2u2	10V 10% X5R 0603	C28	0603	3 DL LED Green	
LED Green	Green LED 0805	D_Power	DIODE_0805	0805	
LS7083		Encoder_To_Count er	SOIC127P600-8L	LS7083	
		ERASE1, JTAGESEL1,			
Header 2	Header, 2-Pin	P_Brake, P_PWM, P_SD	HDR1X2	Header 2	
Ext Power	5.08mm Pluggable Terminal Header	Н1		JP_ENEL429 Header 4	
Battery	5.08mm Pluggable Terminal Header	H2		JP_ENEL429 Header 2	
	Header, 10-Pin,	-	HDD3V46		
Header 10X2	Dual row Box header 5x2 with	JTAG1	HDR2X10 BOXHDR_LOCKIN	Header 10X2 BOXHDR_LOCKIN	
Actuator Header USB Mini-B	wing locks	P1	G_2X5 USB Mini-B	G_5x2 USB Mini B	
USB Mini-B Header 3	Header, 3-Pin	P2 P3	USB Mini-B HDR1X3	USB Mini B Header 3	
Header 4	Header, 4-Pin	P_Current_Semse, P_Encoder	HDR1X4	Header 4	
16,0001 4	3 way upright		I MAI TAN	- 128USI 4	
3 way	Locking & Polarising Header Connector 20V N-channel	P_LA_Possition, P_Speed	Con_3way_0.1	Con3ra100ml	
ZXM61N02F	enhancement mode MOSFET 20V P-channel	Q1	SOT-23	TF_ZXM61N02F	
ZXM61P02F	enhancement mode MOSFET RES 100 OHM	Q2, Q3 R1, R4, R27, R28,	SOT23	TF_ZXM61P02F	
100R 12M	1/ 10W 1% 0603 SMD 0603 Resistor	R29, R32, R35, R36 R6	0603 R0603	RS_100R 0603 12M R0603	
1K	0603 Resistor	R7, R8, R51, R56, R59	R0603	1K_R0603	
1K Res3	0603 Resistor Resistor	R9, R60	RESC1608L	1K_R0603 Res3	
	RES 10.0K OHM	R10, R11, R12, R13, R14, R15, R16, R41, R42,			
10k	1/10W 1%0603 SMD RES 1800HM	R45, R52, R54, R57, R63, R65 R17, R19, R20.	0603	RS_10k 0603	
180R	1/ 10W 1% 0603 SMD RES 680 OHM	R21, R22, R23, R24, R25	0603	RS_180R 0603	
680R	1/ 10W 1% 0603 SMD RES 560 OHM	R18	0603	RS_680R 0603	
560R	1/10W 1%0603 SMD	R37, R38, R39, R40	0603	RS_560R 0603	
100K	0603 Resistor	R46, R47, R48, R49	R0603	100K_R0603	
	RES 330 OHM 1/10W 1%0603	R50, R53, R55,			
330R 330R	SMD 0603 Resistor	R58 R61	0603 R0603	RS_330R 0603 330R_R0603	
	RES 30K OHM 1/10W 1% 0603				
30k	SMD RES 3:3K OHM 1/ 10W 5% 0603	R62	0603	RS_30k 0603	
3k3	SMD RES 2.7K OHM 1/10W 5% 0603	R64	0603	RS_3k3 0603	
2k7	SMD	R66	0603	RS_2k7 0603	
220K 470K	0603 Resistor 0603 Resistor	R67 R68	R0603 R0603	220K_R0603 470K_R0603	
	RES 1.5K OHM 1/10W 5960603				
		loss.	0603	RS 1k5 0603	
1k5	SMD RES 27K OHM	R69	0000	_	
	SMD RES 27K OHM 1/ 10W 1% 0603 SMD	R70	0603	RS_27k 0603	
27k	SMD RES 27K OHM 1/10W 1%0803 SMD RES 27 OHM 1/10W 1%0803 SMD			RS_27k 0603 RS_27R 0603	
27k	SMD RES 27K OHM 1/10W 1%0603 SMD RES 27 OHM 1/10W 1%0603	R70	0603	RS_27R 0603	
27k 27R 47k	SMD RES 27K OHM 1/10W 1%0603 SMD RES 27 OHM 1/10W 1%0603 SMD RES 47.0K OHM	R70 R71, R72 R73	0603 0603	RS_27R 0603 RS_47k 0603	
27k 27R 47k 330K	SMD HES 27K OHM HES 27K OHM 1/10W 1% 0603 SMD RES 27 OHM 1/10W 1% 0603 SMD HES 47.0K OHM 1/10W 1% 0603 SMD 7-pin PicoBlade	R70 R71, R72 R73 R74, R75	0603 0603 0603 0603 Resistor	RS_27R 0603 RS_47k 0603 RS_330K 0603	
27k 27R 47k 330K 53281-0771	SMD RES 27K OHM RES 27K OHM 1/10W 1% 0603 SMD RES 27 OHM 1/10W 1% 0603 SMD 1/10W 1% 0603 SMD 1/10W 1% 0603 SMD 7-pin PicoBlade Right-angle Header	R70 R71, R72 R73 R74, R75 S910, SP11_5	0603 0603 0603 0603 Resistor 53261-0771	RS_27R 0603 RS_47k 0603 RS_330K 0603 53261-0771	
27k 27R 47k 330K 53261-0771 FSM2JSMA	SMD RES 27K OHM 11 10W 1% 0803 SMD RES 27 OHM 11 10W 1% 0803 SMD 11 10W 1% 0803 SMD 11 10W 1% 0803 SMD 7-pm PicoBaide Right-angle Header DPST SMD Switch	R70 R71, R72 R73 R74, R75 SPI0, SPI1_5 SW1, SW2, SW3, SW4, SW_Reset	0603 0603 0603 0603 Resistor 53261-0771 FSN2JSMA SIDP127P780X200-	RS_27R 0603 RS_47k 0603 RS_330K 0603 53261-0771 SW_FSM2JSMA	
27k 27R 47k 330K 53261-0771 FSM2JSMA	SMD RES 27K OHM 1/10W 1% 0603 SMD RES 27 OHM 1/10W 1% 0603 SMD RES 47 UR CHM 1/10W 1% 0603 SMD RES 47 UR CHM 1/10W 1% 0603 SMD 7-pm PicoBlade Right-angle Header DPST SMD Switch SN74LS47	R70 R71, R72 R73 R74, R75 S910, SP11_5	0603 0603 0603 0603 Resistor 53261-0771 FSM2JSMA	RS_27R 0603 RS_47k 0603 RS_330K 0603 53261-0771	
27k 27R 47k 330K 53261-0771 FSM2JSMA SN74LS47	SMD RES 27K OHM 11 10W 1% 0803 SMD RES 27 OHM 11 10W 1% 0803 SMD 11 10W 1% 0803 SMD 11 10W 1% 0803 SMD 7-pm PicoBaide Right-angle Header DPST SMD Switch	R70 R71, R72 R73 R74, R75 SPI0, SPI1_5 SW1, SW2, SW3, SW4, SW_Reset	0603 0603 0603 0603 Resistor 53261-0771 FSM2JSMA SIGH277780X200- 16N HDSM-641C	RS_27R 0603 RS_47k 0603 RS_330K 0603 53261-0771 SW_FSM2JSMA	
27k 27R 47k 330K 53261-0771 FSM2JSMA SN74LS47	SMD RES 27K OHM 11 10W 1% 0603 SMD RES 27 OHM 11 10W 1% 0603 SMD RES 37 JUK CHM 11 10W 1% 0603 SMD 7-pm PicoBlade Right-angle Header DPST SMD Switch SWTALSA? 2 Character 7 segment display	R71, R72 R73 R74, R75 SPI0, SPI1, 5 SW1, SW2, SW3, SW4, SW_Reset U2	0603 0603 0603 0603 Resistor 53261-0771 FSM2JSMA SUP127P780X200- 16N	RS_27R 0603 RS_47k 0603 RS_30K 0603 53261-0771 SW_FSM2JSMA SN74LS47	
330K 53261-0771 FSM2JSMA SN74LS47 HDSM-541C	SMD RES 27/K CHM 1/10W 1% 6803 SMD RES 27/ OHM 1/10W 1% 6803 SMD RES 37/ JRK UHM 1/10W 1% 6803 SMD 7-pm PicoBsdde Right-angle Header DPST SMD Switch STALS 47 SCPL 256/RG SMELES 47/ SMD SMD SMELES 47/ SMD SMD SMD SMELES 47/ SMD SMD SMD SMD SMD SMD SMD SMD	R70 R71, R72 R73 R74, R75 SPI0, SPI1_5 SW1, SW2, SW3, SW4, SW_Reset U2 U3	0603 0603 0603 0603 Resistor 53261-0771 FSN2_ISMA SCP127P780X200-16N SUBJECT SU	RS_27R 0603 RS_47k 0603 RS_30K 0603 S3261-0771 SW_FSM2JSMA SN74LS47 HDSM:541C	
27k 27R 47k 330K 53261-0771 FSM2JSMA SN74LS47 HDSM-641C	SMD RES 27/K CHM 11 toW 1% 0603 SMD RES 27 CHM 11 10W 1% 0603 SMD RES 27 CHM 11 10W 1% 0603 SMD 11 TOW 1% 0603 SMD 17 ppr PicciBlade Right-angle Header OPST SMD Switch SN74LS47 2 character 7 segment display Smait AHM Microcontroller, ARMYTOMI 32-8it	R70 R71, R72 R73 R74, R75 SPI0, SPI1_5 SW1, SW2, SW3, SW4, SW_Reset U2 U3	0003 0003 0003 Resistor 53261-0771 FSMZ-SSAM SSZPTZ/PROXX05- 16N HOSM-541CC BN LOFP100_N	RS_27R 0603 RS_47k 0603 RS_30K 0603 S3261-0771 SW_FSM2JSMA SN74LS47 HDSM:541C	
27k 27R 47k 333K 53261-0771 FSM2JSMA SN74LS47 HDSM-641C ATA6660	SMD RES 27K CSHM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD Prin Proofiside Right-angle Header DPST SMD Switch SNYALS-47 2 character 7 segment display Small ANM Microcontroller, RISS C CDU , 280468 RISS C CDU , 280468 RISS C DU , 280468 RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS RISS RISS RISS RISS RISS	R70 R71, R72 R73 R73 R74, R75 S910, SP11_5 SW1, SW2, SW3, SW1, SW2, SW3, SW1, SW2, SW3, SW3, SW1, SW2, SW3, SW4, SW3, SW4, SW4, SW4, SW4, SW4, SW4, SW4, SW4	0003 0003 Resistor 52261-0771 52261-0771 SUBJECT SUBJE	RS_27R 0603 RS_47k 0603 RS_47k 0603 RS_330K 0603 S3261-0771 SW_FSM2JSMA SN74LS47 HDSM-641C ATA6660	
27k 47k 47k 47k 330K 53261-0771 FSM2JSMA SN74LS47 HDSM-541C ATA6860	SMD RES 27K CSHM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD Prin Proofiside Right-angle Header DPST SMD Switch SNYALS-47 2 character 7 segment display Small ANM Microcontroller, RISS C CDU , 280468 RISS C CDU , 280468 RISS C DU , 280468 RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS RISS RISS RISS RISS RISS	R70 R71, R72 R73, R74, R75 R74, R75 SP0, SP1, SP1, S SP0, SP1, SP1, SP1, SP1, SP1, SP1, SP1, SP1	0603 0603 0603 Residor 5326 1077 5326 1077 5326 1077 5326 1077 500 1000 1000 1000 1000 1000 1000 1000	RS_27R 0603 RS_47k 0603 RS_47k 0603 RS_330K 0603 53261-0771 SW_FSM2JSMA SN74LS47 HDSM-641C ATA6660 AT91SAM7X256-AU	
27R 47s	SMD RES 27K CSHM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD Prin Proofiside Right-angle Header DPST SMD Switch SNYALS-47 2 character 7 segment display Small ANM Microcontroller, RISS C CDU , 280468 RISS C CDU , 280468 RISS C DU , 280468 RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS RISS RISS RISS RISS RISS	R70 R71, R72 R73 R74, R75 SW4, SW, Reset UU	0003 0003 0003 Resistor 0003 Resistor FSMASSMA SICP127/F00X00- IN HDSMA641C SIGCI27/F00X0150- N LOFP100_N TSCR-6894980X110 TSCR-6894980X110 TSCR-6894980X110 TSCR-6894980X110 TSCR-6894980X110 TSCR-6894980X110 TSCR-6894980X110	RS_27R 0003 RS_47k 0003 RS_300 0003 RS_300 0003 RS_300 0003 SWF_SM2JSMA SW74LS47 HOSMA541C ATA6660 AT91SAM7X256 AU TSP7A4901 TRS7A0033-Q1	
27k 47k 47k 47k 5330K 53361-0771 FSM2JSMA SN74LS47 HDSM-641C ATA9880	SMD RES 27K CSHM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD RES 27 O-HM 1/10W 1% 6603 SMD Prin Proofiside Right-angle Header DPST SMD Switch SNYALS-47 2 character 7 segment display Small ANM Microcontroller, RISS C CDU , 280468 RISS C CDU , 280468 RISS C DU , 280468 RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS C DU , 280468 RISS RISS RISS RISS RISS RISS RISS RISS	R71, R72 R73, R74, R75 R74, R75 SW1, SW2, SW3, SW1, SW2, SW4, SW2, Reset U2 U3 U4	0003 0003 0003 0003 0003 0003 0003 000	RS_27R 0603 RS_47R 0603 RS_30K 0603 RS_30K 0603 S3261 077 SW_FSM2JSMA SW74LS47 HDSM4541C AT65660 AT91SA4T7286-AU TSP7A6901	