

























Comment	Description	Designator	Footprint	LibRef	Quantity
100k		3	0402_4R	0402_4R	1
MS621FE/DNP		BAT2	MS621FE	MS621FE	1
EVQ-P7J01P		BOOTO, KEY1, KEY2	EVQ-P7J01P	EVQ-P7J01P	3
22NF		C1, C33	0402CAP	Cap	2
47NF		C2	0402CAP	Cap	1
100nf	NoValue , NoVa	C3, C6, C7, C9, C10, C18, C19, C20, C21, C22, C24, C28, C29, C32, C34, C36, C37, C38, C39, C43, C44, C45, C46, C47, C56, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67	0402CAP	Сар	35
	[NoValue]				
BPF		C4, C8, C23, C27	0402CAP	Cap	4
10nf	[NoValue], Capacitor	C5, C53	0402CAP	Cap	2
22UF/16V		C11	0805CAP	Cap	1
47UF 16V	Polarized Capacitor	C12. C13	7343CAP	Cap Pol1	2
22UF	(Radial)	C14, C15, C16, C17, C30, C31, C40, C41,	0805CAP	Сар	13
		C48, C49, C57, C68, C69			
2.2uf	[NoValue], [NoValue], Capacitor, [NoValue]	C25, C26, C35, C42	0402CAP	Cap	4
47UF/16V	pucitor, [IVO Value]	C50	c1206a	Сар	1
220nf	Capacitor	C51	0402CAP	Сар	1
4.7uf	Capacitor	C52	0805cap	Сар	1
2.2UF/16V		C54	0402CAP	Сар	1
22uf	I	C55	c1206a	Сар	1
TF-CARD	1	CON2	47352-1001	47352-1001	1
0547220204	1	CON2 CON3	0547220204	0547220204	-
	0.1W B11-				1
D240L	Schottky Diode	D1, D2, D6	SOD-123	D Schottky	3
SI7615ADN	 	D3, D7	DFN3x3_8L	P_MOS_2	2
.RTB		D4	LRTB	LRTB	1
ONP		ESD2	ESD0402	ESD0402	1
OR .	Fuse	F2	0805L	Fuse 1	1
CYOCERA-KNH16-DA		F3	KYOCERA-KNH16-DA	KYOCERA-KNH16-DA	1
5V_2A	Fuse	F4/DNP	0805L	Fuse 1	1
oix_pwm_io		101	pix_pwm_out	pix_pwm_io	1
NPUT_IO		102	PIX_OP	INPUT_IO	1
500MA	Resistor	L1	0805L	Res2	1
MIC5330-SSYML		LDO1, LDO2, U10	MIC5530	MIC5530	3
0603RGB		LED1	0603RGB	0603RGB	1
309k	Resistor	R1	R0402	Res2	1
453K	Resistor	R2, R5	R0402	Res2	2
			RU4U2		
		R3	R0402		1
24.9k	Resistor Resistor		R0402	Res2	1 2
24.9k 56K 10k	Resistor Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R35, R37, R42, R43, R44, R46, R61, R79, R82, R83	R0402 R0402 R0402	Res2 Res2 Res2	1 2 26
24.9k 56K 10k	Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R35, R37, R42, R43, R44, R46, R61, R79, R82, R83 R8	R0402 R0402	Res2 Res2	
24.9k 56K 10k 75k	Resistor Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R35, R37, R42, R33, R44, R46, R61, R79, R82, R83, R8, R9, R10, R56, R57, R58, R60, R63, R64, R65, R60, R67, R68, R69, R70, R71, R72, R73,	R0402 R0402 R0402	Res2 Res2 Res2	
24.9k 56K 10k 775k	Resistor Resistor Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R37, R42, R43, R45, R37, R42, R43, R44, R46, R61, R77, R82, R83 R8 R9, R10, R56, R57, R58, R60, R63, R64, R65, R70, R71, R72, R73, R74, R75, R76, R77, R78	R0402 R0402 R0402	Res2 Res2 Res2	26
24.9k 56K 110k 175k	Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R35, R37, R42, R43, R44, R46, R61, R79, R82, R83 R9, R10, R56, R57, R58, R60, R63, R64, R65, R70, R71, R72, R73, R71, R72, R73, R71, R74, R55, R50, R54, R11, R45, R50, R54, R11, R45, R50, R54,	R0402 R0402 R0402 R0402 R0402 R0402	Res2 Res2 Res2 Res2 Res2	26 1 22
24.9k 66K 110k 175k 100R	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R23, R25, R23, R23, R23, R23, R23, R24, R25, R24, R26, R26, R26, R26, R26, R26, R26, R26	R0402 R0402 R0402 R0402 R0402 R0402 R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 8
24.9k 66K 10k 15k 100R 1220R 6.5K	Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R17, R20, R21, R22, R22, R25, R26, R30, R32, R33, R34, R35, R34, R34, R34, R34, R34, R34, R34, R34	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 8 1 1 2
24.9k 24.9k 10k 10k 75k 1000 220R 16.5K	Resistor	83 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R34, R34, R34, R34, R34, R34	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 1 2 2 5
24.9k 10k 10k 10k 10or 16.5K 16.5K 10sk	Resistor	R3 (A4, R6) (R7, R12, R13, R14, R15, R17, R20, R21, R22, R17, R20, R21, R22, R22, R25, R26, R30, R32, R33, R34, R35, R34, R35, R34, R35, R34, R35, R34, R35, R34, R36, R36, R36, R36, R36, R36, R36, R36	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 1 2 5 5
24.9k 10k 10k 10k 10oR 10oR 10oR 10oR 16.5K 16.5K 1M 10oSh 1M 10oK/10K 10K 10K 10K 10K 10K 10K 10K 10K 10K	Resistor	93 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R21, R22, R25, R26, R26, R26, R26, R26, R26, R26, R26	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 8 1 2 5 5
14.9k 10k 10k 10k 10k 10k 10k 10k 10k 10k 10	Resistor	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R17, R20, R21, R22, R22, R25, R26, R30, R32, R33, R34, R35, R36, R37, R34, R36, R36, R37, R36, R36, R36, R36, R36, R36, R36, R36	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 1 1 2 5 5 1 1 1 2 2
14.9k 10k 10k 10k 10k 10k 10k 10k 10k 10k 10	Resistor	93 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R21, R22, R25, R26, R26, R26, R26, R26, R26, R26, R26	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 8 1 2 5 5
24.9k 26.6K 10k 10k 10or 10or 220r 16.5K 105k 1M 20k/10K 10kUs 11k	Resistor	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R23, R23, R23, R23, R23, R23, R23	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 1 22 8 1 1 2 5 5 1 1 1 2 2
24.9k 56K 10k 10k 175k 1100R 220R 16.5K 105k 1100K 1100K 1100K 110K 110K 110K 110K	Resistor	R3	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 8 8 1 2 2 5 5 1 1 1 2 2 9
24.9k 66K 10k 10k 10k 10or 10or 10or 16.5K 16.5K 10os 11M 200K/15.1K 200K/15.1K 200K/15.1K 222R	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R11, R20, R21, R22, R22, R23, R23, R23, R23, R23, R23	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 8 8 1 2 5 5 1 1 2 2 9 9
24.9k 10k 10k 10k 10k 10or 10or 10or 10os 16.5K 10os 1M 10os 1M 10os 1M 10s 10s 1M 10s	Resistor Res	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R13, R14, R15, R17, R20, R21, R22, R23, R25, R26, R30, R32, R33, R34, R35, R34, R35, R37, R42, R34, R34, R34, R34, R34, R34, R34, R34	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 8 1 22 5 5 1 1 2 2 9 2 1
14.9% 66K 66K 60K 60K 60K 60K 60K 60K 60K 60K	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R11, R20, R21, R22, R22, R23, R23, R23, R23, R23, R23	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 8 8 1 2 5 5 1 1 2 2 9 9
14.9k 10k 10k 10k 10k 10k 10k 10k 1	Resistor Res	R3 R4, R6 R7, R12, R13, R14, R15, R17, R20, R21, R22, R17, R20, R21, R22, R22, R25, R26, R30, R32, R33, R34, R33, R34, R34, R34, R34, R34	R0402	Res2 Res2 Res2 Res2 Res2 Res2 Res2 Res2	26 8 8 1 2 5 5 1 1 2 2 9 9
14.9% 66K 66K 66K 66K 66K 60K 60K 60K 60K 60K	Resistor Res	83 R4, R6, R7, R15, R14, R15, R15, R15, R15, R15, R15, R15, R15	R0402 T0FP100_2 T0FP100_2 T0FP48 C0FN20-RGY	0x52 Res2 Stms2 Res2 SHM22 F42VIT6 STM32F103C8T6 TNSO108E 74LVC2C240	26 88 11 22 55 11 22 00 22 11 11 11 33 11
14.9% 66K 66K 66K 66K 66K 60K 60K 60K 60K 60K	Resistor Res	9.3 R.4, R.6 R.7, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.15, R.25,	R0402 R0403 R0403 R0404 R0404 R0404 R0405 R0406	Des2 Res2 Tes5 STM32F42FVIT6 STM32F103C8T6 TDS0108E TALV2C2C40 Component_1 MFU025D MFU04D08PTIG	26 88 11 22 55 11 22 00 22 11 11 11 33 11
14.9k 66K 10k	Resistor Res	83 R4, R6, R7, R15, R14, R15, R15, R15, R15, R15, R15, R15, R15	R0402 R0403 R0403 R0403 R0403 R0404 R0403 R0403 R0403 R0404 R0403 R0404 R0403 R0404 R0404 R0404 R0405 R0406	0x52 Res2 STM2 Res2 STM32F427VIT6 STM32F403C8T6 TALVCC0240 Component_1 MPUP2S0	26 8 1 1 22 5 5 1 1 2 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14.9% 66K Ok Ok 15k 00R 1220R 16.5K 16.5K M 00K/10K 00K/10K 00K/10K 00K/10K 00K/51 K K2 K USA STM32F427VIT6 STM32F427VIT6 STM32F427VIT6 STM32F103C8T6 SS0108ERGYR 41VC2G240DP MCJSV01-G MPU92S0/ONP	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R21, R12, R21, R21, R21, R21	R0402	Des2 Res2 Tes5 STM32F42FVIT6 STM32F103C8T6 TDS0108E TALV2C2C40 Component_1 MFU025D MFU04D08PTIG	26 8 1 2 2 5 5 1 1 2 2 9 2 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
14.9% 16K 16K 16K 16K 16K 16K 16K 16	Resistor Res	9.3 RA,	R0402	Res2 SIM32F427VIT6 SIM32F103CBT6 TXS0108E 7AUV2CQ40 Component, 1 MPU9250 NUF3M2FV0SFTIG	26 8 1 2 2 5 5 1 1 2 2 9 2 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 24.9k 10k 10k 10k 10k 10k 10k 10k 10k 10k 10	Resistor Res	9.3 R.4, R.6 R.7, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14, R.15, R.15, R.25,	R0402 R0503 R0402 R0503	Des2 Res2 Res2 Res2 Res2 Res2 Res2 Res2 R	26 8 1 2 2 5 5 1 1 2 2 9 2 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 24.9k 24.9k 24.9k 25.6k 26.6k 27.5k 28.6k	Resistor Res	9.3 R.4, R.6 R.7, R.7, R.7, R.7, R.7, R.7, R.7, R.7,	R0402	0x52 Res2 SIM32F42VIT6 SIM32F42VIT6 SIM32F100C8T6 TALVCGC240 Component_1 MPUP250 NTHG10ZPTIG NLEADEXPKETG TCA62724FMG PWR1-2_1 HMC5983	26 8 1 2 2 5 5 1 1 2 2 9 2 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 66K 10k 175k 110k 175k 1100R 12220R 1106 SK 1100S 1108 SK 1108 S	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R21, R12, R21, R21, R21, R21	R0402 R0503 R0402 R0503	Des2 Res2 Jose State	26 22 3 1 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1
24.9k 24.9k 24.9k 24.9k 24.9k 25.6k 22.0R	Resistor Res	9.3 R.4, R.6 R.7, R.12, R.13, R.14, R.15, R.17, R.12, R.13, R.14,	R0402 R0403 R0402 R0403 R0403 R0404 R0404 R0403 R0404 R0403 R0404 R0403 R0404 R0404 R0405 R0405 R0405 R0406	Post2 Res2 Res2	26 3 4 1 2 2 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 66K 10k	Resistor Res	9.3 RA,	R0402 R0403 R0402 R0403	Des2 Res2 Res2 Res2 Res2 Res2 Res2 Res2 R	26 88 11 22 55 11 12 29 11 11 11 11 11 11 11 11 11 11 11 11 11
24.9k 24.9k 24.9k 24.9k 25.6k 200 200 200 200 200 200 200 200 200 20	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R21, R12, R21, R21, R21, R21	R0402	Des2	26 8 8 1 1 2 2 5 5 1 1 1 2 2 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 266K 10k 10k 10k 10k 10k 10k 10k 10	Resistor Res	9.3 RA,	R0402 R0403 R0402 R0403	Des2 Res2 Res2 Res2 Res2 Res2 Res2 Res2 R	26 8 1 1 22 5 1 1 2 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24.9k 10k 10k 10k 10or 10or 10or 10sk 11M 10ok/10k 12k 12k 12k 12k 12k 12k 12k 12k 12k 12	Resistor Res	93 R4, R6 R7, R12, R13, R14, R15, R11, R20, R21, R22, R21, R12, R21, R21, R21, R21	R0402	Des2 Res2 Res2 Res2 Res2 Res2 Res2 Res2 R	26 8 1 22 5 1 1 2 9 2 1 1 1 3 1 1 1 1 1 1 1 1 1