

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Additional Notes	Supplier	Supplier's ordering code
1	1	C1	220NF	6.3V	CER	10%	402	MURATA	GRM155R60J224KE01			
2	1	C2	180PF	50V	CER	5%	402	MURATA	GRM1555C1H181JA01			
3	1	C3	10UF	10V	CER	10%	1206	MURATA	GRM31CR71A106KA01		RS	723-6559
4	1	C4	470NF	35V	CER	10%	402	MURATA	GRM155R6YA474KE01			
5	1	C5	10UF	35V	CER	10%	1206	MURATA	GRM31CR6YA106KA12		RS	790-0613
6	1	C6	22UF	25V	CER	20%	1206	MURATA	GRM32ER61E226KE15			
7	1	C7	100UF	50V	ALU	20%	D6.3_H7.7	PANASONIC	EEEFTH101XAP		RS	729-6309
8	2	C8,C9	47NF	35V	CER	10%	402	MURATA	GRM155R61H473KE19			
9	1	C10	10NF	50V	CER	10%	402	MURATA	GRM155B31H103KA88			
10	2	C11,C13	100NF	50V	CER	10%	402	MURATA	GRM155R61H104KE14			
11	1	C12	1NF	50V	CER	10%	402	MURATA	GRM155R61H102KA01			
12	5	C14,C17,C18,C20,C21	100NF	6.3V	CER	10%	402	MURATA	GRM155R60J104KA01			
13	1	C15	4.7UF	6.3V	CER	20%	402	MURATA	GRM155R60J475ME47			
14	1	C16	1UF	6.3V	CER	10%	402	MURATA	GRM152R60J105ME15			
15	1	C19	10NF	6.3V	CER	10%	402	N.A.	10NF_6V3_X5R_0402_10%			
16	2	C22,C23	15PF	50V	CER	5%	402	MURATA	GRM1555C1H150JA01		DIGIKEY	490-11376-2-ND
17	3	D1,D3,D4	TS4148RY		SCHOTTKY		805	TAIWAN SEMICONDUCTOR	TS4148RY		MOUSER	821-TS4148-0805-RY
18	1	D2	SMAJ40CA		TVS		SMA	STMICROELECTRONICS	SMAJ40CA		RS	714-7109
19	1	D5	RED		LED		805	WURTH ELEKTRONIK	150080RS75000			
20	1	J1	KNM1P5.75_2SQV80NE-T		HEADER		CON_KNM1P5.75_2SQV80NE-T	WURTH ELEKTRONIK	KNM1P5.75_2SQV80NE-T			
21	1	L1	33uH	0,65A	INDUCTOR	20%	L4_W4_H1.8	WURTH ELEKTRONIK	74404042330		RS	814-2537
22	1	R1	30K	1/16W	RES	1%	402	N.A.	30K_1%_0402			
23	1	R2	13K	1/16W	RES	1%	402	N.A.	13K_1%_0402			
24	1	R3	68R	1W	RES	5%	1218	N.A.	68R_5%_1218_1W			
25	2	R4,R6	1K	1/16W	RES	5%	402	N.A.	1K_5%_0402			
26	1	R5	4.7M	1/16W	RES	5%	402	N.A.	4.7M_5%_0402			
27	1	R7	(Optional) 100K	1/10W	RES	5%	603	N.A.	100K_5%_0603	Not needed in OPM mode		
28	1	R8	8.2K	1/16W	RES	5%	402	N.A.	8.2K_5%_0402			
29	3	R9,R10,R11	10K	1/16W	RES	5%	402	N.A.	10K_5%_0402			
30	1	S1	434111025826		BUTTON		L6_W3.8_H2.5	WURTH ELEKTRONIK	434111025826		RS	785-6406
31	3	TP1,TP2,TP3	TPSMD-1MM		TEST POINT		Test Point	N.A.	TPSMD-1MM			
32	1	U1	STKNX		TRANSCEIVER		VFDFPN24_L4_W4_P0.5	STMICROELECTRONICS	STKNX			
33	1	U2	(Optional) 74AHC1G08SE-7		LOGIC		SOT353	DIODES INC	74AHC1G08SE-7	Not needed in OPM mode	DIGIKEY	74AHC1G08SE-7DITR-ND
34	1	U3	STM32F030C8T6		MCU		LQFP48	STMICROELECTRONICS	STM32F030C8T6		RS	792-5921
35	1	U4	M24C32-RMN6		MEMORY		SO8	STMICROELECTRONICS	M24C32-RMN6		DIGIKEY	497-8644-2-ND
36	1	Y1	16MHZ-10PPM-8PF		QUARTZ		L2.0_W1.6_H0.45	NDK	EXS00A-CS06655			