



EVALSTPM-3PHISO V1.1
Bill of material

Description	Designator	Qty	Value	Footprint	Comment	Manufacturer
Capacitor (Semiconductor SIM Model)	C1, C14, C15, C16, C17, C18, C19, C20, C21, C22, C24, C26, C28	13	1u	1608[0603]		
Polarized Capacitor (Surface Mount)	C11, C12, C13	3	470u 25V	Cap_Pol_EEAHA1E471P		Panasonic
Capacitor (Semiconductor SIM Model)	C2, C3	2	4.3p	1608[0603]		
Capacitor (Semiconductor SIM Model)	C29, C31, C33	3	10n	1608[0603]		
Capacitor (Semiconductor SIM Model)	C30, C32, C34	3	22n	1608[0603]		
Capacitor (Semiconductor SIM Model)	C4, C5	2	2p	1608[0603]		
Capacitor (Semiconductor SIM Model)	C6,C35	2	4.7u	1608[0603]		
Capacitor (Semiconductor SIM Model)	C7, C23, C25, C27, C36, C37, C38, C39, C40	9	100n	1608[0603]		
Capacitor	C8, C9, C10	3	470n 400V	RAD_15mm		Panasonic
micro-USB plug	CN1	1	MOLEX_47590001			Molex
1 Amp General Purpose Rectifier	D1, D2, D3	3	1N4007	DO-41		
1.0 Ampere Fast Recovery Rectifier	D10, D11	2	1N5817	DO-41		ON semiconductor
LED green color 3mm diam	D12	1	green LED	R38		
LED red color 3mm diam	D13, D14	2	red LED	R38		
Zener Diode	D4, D5, D6	3	5.1V	3.2X1.6X1.1		Vishay
Schottky Diode	D7, D8, D9	3	SMAJ6.5A	DO-214AC		ST
Jumper Wire	J1, J2	2	generic 2.54mm male strip	HDR1X2	Place Jumper Cap	
Socket	J3	1	DNI	PIN1	DO NOT MOUNT	
Socket	J4	1	DNI	PIN1	DO NOT MOUNT	
Socket	J5	1	DNI	PIN1	DO NOT MOUNT	
Socket	J6	1	DNI	PIN1	DO NOT MOUNT	
Low Voltage Power Supply Connector	J7	1	DC plug KLD-0202	KLD-0202		Kycon
Inductor	L1	1	100uH inductor	INDC1608L		Taiyo Yuden
Header, 20-Pin	P1	1	generic 2.54mm dual row male strip	HDR2X10		
Header, 9-Pin, Dual row	P2	1	generic 2.54mm dual row male strip	HDR2X9_CEN		
Header, 18-Pin, Dual row	P3	1	generic 2.54mm dual row male strip	HDR2X18		
Header, 3-Pin	P4	1	generic 2.54mm dual row male strip	HDR1X3	Place Jumper Cap	
Header, 10-Pin, Dual row	P5	1	generic 2.54mm dual row male strip	HDR2X10_CEN		
Header, 2-Pin	P6, P7, P8	3	generic 2.54mm dual row male strip	HDR1X2	Place Jumper Cap	
Header, 4-Pin	P9, P10	2	DNI	HDR1X4	DO NOT MOUNT	
Resistor	R1, R2, R3, R5, R7, R8	6	22R	J1-0603		
Resistor	R11	1	100K	J1-0603		
Resistor	R12, R13, R14	3	100R 1W	AXIAL-0.6		
Resistor	R15, R16, R17	3	0R	J1-0603		
Resistor	R18, R19, R20, R25, R27, R29, R36, R37, R38	9	270K	3216[1206]		
Resistor	R21, R22, R23, R33, R34, R35	6	1K	J1-0603		
Resistor	R30, R31, R32	3	470R	3216[1206]		
Resistor	R4	1	DNI	J1-0603	DO NOT MOUNT	
Resistor	R40, R41, R42	3	100R	J1-0603		
Resistor	R6, R9, R10, R39	4	10K	J1-0603		
Shunt resistor	RS1, RS2, RS3	3	BKW-R0003-5			Isabellenhuette
Varistor (Voltage-Sensitive Resistor)	RV1, RV2, RV3	3	ERZE11A561	CAPRD7.5-13x6		Panasonic
Button switch	S1	1	KSEM31G LFS	PB_6.2x6.2		C&K
IC	U1	1	STM32F413RHT6TR	PAG64_L		ST
Very Low Drop Voltage Regulator with Inhibit	U11	1	L4931ABD33	SOP8_N		ST
IC	U2, U3, U4	3	STLQ015	SOT-23-5		ST
IC	U5, U6, U7	3	STISO621W	Z-8_M		ST
IC	U8, U9, U10	3	STPMS2	RGV16_L		ST
crystal oscillator	Y1	1	NX3225-GD-8.000M	XTAL_NX3225		NDK
crystal oscillator	Y2	1	NX3215SA-32.768K	XTAL_NX3215		NDK