

PROJECT NAME: STEVAL-3DP001V1
BILL OF MATERIALS

Description	Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
CAP CER 47pF 25V X5R 0603	1	1	C1	47PF	25V	CERAMIC	15%	0603		
CAP CER 1uF 25V X5R 0603	2	1	C2	1UF	25V	CERAMIC	10%	0603	MURATA	GRM188R61E105KA12J
CAP CER 15uF 25V X5R 4532	3	1	C3	15UF	25V	CERAMIC	20%	4532	TDK	C4532X5R1E156M
CAP CER 10uF 16V X7R 1206	4	1	C4	10UF	16V	CERAMIC	10%	1206	MURATA	GRM31CR71C106KAC7L
CAP CER 10uF 16V X5R 0603	5	9	C5 C6 C50 C51 C52 C56 C57 C58 C67	10UF	16V	CERAMIC	15%	0603		
CAP CER 100nF 50V X7R 0603	6	46	C7 C10 C11 C19 C20 C21 C23 C25 C26 C28 C30 C31 C38 C39 C40 C42 C43 C44 C46 C47 C48 C53 C54 C55 C59 C60 C61 C62 C63 C64 C65 C66 C68 C70 C71 C72 C78 C80 C82 C83 C86 C90 C91 C92 C93	100NF	50V	CERAMIC	15%	0603		
CAP CER 1uF 10V X7R 0603	7	3	C8 C9 C79	1UF	10V	CERAMIC	15%	0603		
CAP CER 10nF 50V X7R 0603	8	11	C12 C13 C17 C18 C24 C35 C36 C37 C69 C84 C85	10NF	50V	CERAMIC	15%	0603		
CAP CER 220nF 35V X7R 0603	9	6	C14 C15 C16 C32 C33 C34	220NF	35V	CERAMIC	15%	0603		
CAP ALU 33uF CMS 25V	10	6	C22 C27 C29 C41 C45 C49	33UF	25V	ALUMINIUM	20%	CMS	WURTH ELECTRONIK	865080442006
CAP CER 2.2uF 6.3V X7R 0603	11	2	C73 C81	2.2UF	6.3V	CERAMIC	20%	0603		
CAP CER 4.7uF 6V3 X5R 0603	12	1	C74	4.7UF	6.3V	CERAMIC	15%	0603		
CAP CER 18pF 50V COG 0603	13	2	C75 C77	18PF	50V	CERAMIC	5%	0603		
CAP NP 0603	14	1	C76	NP		NP		0603		
CAP CER 10pF 50V COG 0603	15	2	C88 C89	10PF	50V	CERAMIC	10%	0603		
DIODE SCHOTTKY 3A	16	1	D1	BAT60J	10V	DIODE		SOD323	STMICROELECTRONICS	BAT60J
Power Schottky LOW DROP POWER SCHOTTKY RECTIFIER 2A 30V	17	1	D2	STPS2L30A	30V	SCHOTTKY		SMA	STMICROELECTRONICS	STPS2L30A
DIODE, TVS, SMAJ12A, 12V, DO-214AC	18	1	D3	SMAJ12A	12V	TVS		DO214AC	STMICROELECTRONICS	SMAJ12A
DIODE, TVS, SMBJ24A, 24V, DO-214AC	19	1	D4	SMBJ24A	24V	TVS		DO214AA	STMICROELECTRONICS	SMBJ24A
GREEN LEDC-0603	20	11	D5 D15 D16 D17 D18 D19 D20 D24 D25 D26 D29	GREEN		LED		LEDC-0603	WURTH ELECTRONIK	150060VS75000
Dual transil ESD - SOT23	21	1	D6	ESDA5V3L		DIODE		SOT23	STMICROELECTRONICS	ESDA5V3L
RED LEDC-0603	22	4	D7 D8 D27 D30	RED		LED		LEDC-0603	WURTH ELECTRONIK	150060RS75000
Double Diode High Speed Switching Diode	23	6	D9 D10 D11 D12 D13 D14	BAR43		DIODE		SOT23	STMICROELECTRONICS	BAR43SFLM
Diode schottky 30V 300mA	24	3	D21 D22 D23	BAT30KFLM		DIODE		SOD523	ST MICRO	BAT30KFLM
transil ESD x5 - SOT323-6L	25	3	D31 D32 D33	ESDA6V1-5W6		TVS/ESD/EMI		SOT323-6L	STMICROELECTRONICS	ESDA6V1-5W6
HOLE	26	4	FIX1 FIX2 FIX3 FIX4			HOLE				
Screw connector 4 poles - 30A - Pitch 9,5mm	27	1	J1	CON SCREW 4POS 9.5mm		SCREW CONNECTOR		9.5	OST	OSTYK51104030
Screw connector 4 poles - 6A - Pitch 2,54mm	28	11	J2 J3 J4 J5 J6 J7 J9 J13 J14 J15 J17	CON SCREW 4POS 2.54mm		SCREW CONNECTOR		2.54	WURTH ELECTRONIK	691210910004
Screw connector 6 poles - 10A - Pitch 6,35mm	29	2	J8 J12	CON SCREW 6POS 6.35mm		SCREW CONNECTOR		6.35	OST	OSTYK21106030
THOUGH-HOLE-1x4-Pin height 11.54 Body 6mm - pitch 2.54mm	30	3	J10 J24 J25	CON-1x4	250V	HEADER		1x4 - pitch 2.54	WURTH ELECTRONIK	61300411121
USB_B_MINI_CMS	31	2	J11 J20	CN-USB		USB		65100516121	WURTH ELECTRONIK	65100516121
Screw connector 6 poles - 6A - Pitch 2,54mm	32	2	J16 J18	CON SCREW 6POS 2.54mm		SCREW CONNECTOR		2.54	WURTH ELECTRONIK	691210910006
USB_A_CMS_TYPE_A_FEMELE	33	1	J19	CN-USB-A		USB		62900416021	WURTH ELECTRONIK	62900416021
MICRO SD CONNECTOR PUSH PULL	34	1	J21	MICRO-SD		MICROSD			WURTH ELECTRONIK	693071010811
STRIP254P-M-2	35	1	J22	JUMPER2		JUMPER		22-28-4023	WURTH ELECTRONIK	61300211121
THOUGH-HOLE-2x20-Pin height 11.54 Body 6mm - pitch 2.54mm	36	1	J23	CON-2x20	250V	HEADER		2x20 - pitch 2.54	WURTH ELECTRONIK	61304021121
WE-PD Series Shielded Wire-wound SMD Inductor with a Ferrite Core, 8.2 uH ±20% 6.25A	37	1	L1	8.2uH		COIL	20%		WURTH ELECTRONIK	744771008
FERRITE BEAD120 OHM 2A 0603	38	1	L2	120R		FERRITE	25%	0603	WURTH ELECTRONIK	742792625
OPTICAL_TARGET	39	3	MIRE1 MIRE2 MIRE3	OPTICAL_TARGET		OPTICAL_TARGET				
Pad 1.7mm with Solder Paste on pad	40	2	N1 N2	TP		TEST POINT				
N-channel 30 V, 1.1mO 50A, StripFET VII Power FLAT 5x6 StripFET™ II Power MOSFET	41	3	Q1 Q2 Q3	STL220N3LLH7		TRANSISTOR		PowerFLAT_5x6	STMicroelectronics	STL220N3LLH7
N-channel 100 V, 25mO 8A, StripFET III Power FLAT 3.3x3.3 StripFET™ II Power MOSFET	42	3	Q4 Q5 Q6	STL8N10F7		TRANSISTOR		PowerFLAT_3.3x3.3	STMicroelectronics	STL8N10F7
N-channel 30 V, 21 mohms 6A, StripFET VI Deepgate Power MOSFET	43	3	Q7 Q8 Q9	STT6N3LLH6		TRANSISTOR		SOT23-6L	STMicroelectronics	STT6N3LLH6
XSTR_GEN PURP.NPN.45V.100mA.225mW.SOT-23	44	1	Q10	BC847		TRANSISTOR		SOT23-3L	ON SEMICONDUCTOR	BC847BLT1
RES 68K OHM 1% 1/16W 0603 SMD	45	1	R1	68K	1/10W	CMS	1%	0603		
RES 13KOHM 1/10W 5% 0603 SMD	46	1	R2	13K	1/10W	CMS	5%	0603	PANASONIC CORP	ERJ3GEYJ133V
RES 220R OHM 1/10W 5% 0603 SMD	47	5	R3 R64 R65 R66 R70	220R	1/10W	CMS	5%	0603		
820R OHM 5% 1/10W	48	1	R4	820R	1/10W	CMS	5%	0603		
RES 10K OHM 5% 1/10W 0603 SMD	49	12	R5 R9 R13 R14 R15 R34 R45 R68 R71 R72 R73 R91	10K	1/10W	CMS	5%	0603		
RES 2.7K OHM 5% 1/10W 0603 SMD	50	2	R6 R85	2.7K	1/10W	CMS	5%	0603		
RES 1K OHM 5% 1/10W 0603 SMD	51	10	R7 R19 R20 R21 R28 R29 R30 R37 R38 R39	1K	1/10W	CMS	5%	0603		
330R OHM 5% 1/10W 0603	52	2	R8 R80	330R	1/10W	CMS	5%	0603		
RES NP 0603	53	23	R10 R11 R12 R16 R17 R18 R25 R26 R27 R31 R32 R33 R40 R41 R42 R52 R53 R54 R55 R56 R57 R67 R90	NP		CMS		0603		
RES 2.2KOHM 1/10W 5% 0603 SMD	54	3	R22 R23 R24	2.2K	1/10W	CMS	5%	0603		
RES 0 OHM 5% 1/10W 0603	55	15	R35 R36 R43 R44 R46 R47 R48 R49 R50 R51 R58 R60 R61 R78 R82	0R	1/10W	CMS	5%	0603		
RES 100 OHM 5% 1/10W	56	5	R59 R62 R74 R77 R87	100R	1/10W	CMS	5%	0603		
RES 1M OHM 1/10W 5% 0603 SMD	57	2	R63 R69	1M	1/10W	CMS	5%	0603		
RES 1.5K OHM 1/10W 5% 0603 SMD	58	1	R75	1.5K	1/10W	CMS	5%	0603		
RES 36K OHM 5% 1/10W 0603	59	1	R76	36K	1/10W	CMS	5%	0603		
RES 100K OHM 5% 1/10W 0603 SMD	60	3	R79 R88 R89	100K	1/10W	CMS	5%	0603		
RES 4.7K OHM 5% 1/10W 0603 SMD	61	3	R81 R83 R86	4.7K	1/10W	CMS	5%	0603		
WIRE_SOLDER_3MN	62	2	SW1 SW2	EVQO2D03W		BUTTON		BUTTON-EVQO2	PANASONIC CORP	EVQO2D03W
DCDC Converter control circuits 3A DC step down switching regulator	63	4	TP1 TP2 TP3 TP4	WIRE_SOLDER_3MN		TEST POINT		WIRE_SOLDER		
IC REG 1500MA 3.3V FIXED LOW DROP VOLTAGE	64	1	U1	ST1S40		DCDC		HSOP-8	STMICROELECTRONICS	ST1S40PHR
1.2A CURRENT LIMITED HIGH SIDE POWER SWITCH	65	1	U2	LD1086		REG		DPAK	STMICROELECTRONICS	LD1086DT33TR
Enhanced single-channel power switches - USB - actif HIGH	66	1	U3	ST890		POWER SWITCH 1 channel		DFN8L	STMICROELECTRONICS	ST890DTR
	67	1	U4	STMP52151STR		POWER SWITCH 1 channel		SOT23-5	STMICROELECTRONICS	STMP52151STR

IC,VOLT REG,3.3V,60MA,5 PIN,SOT-23-5	68	1	U5	LD3985M33R	REG	SOT23-5	STMICROELECTRONICS	LD3985M33R
easySPIN MICROSTEPPING MOTOR DRIVEN	69	6	U6 U7 U8 U9 U10 U11	L6474H	MOTOR DRIVER	HTSSOP28	STMICROELECTRONICS	L6474H
IC,None Invert with 3-state,5 PIN,SC-70	70	9	U12 U13 U14 U15 U16 U17 U18 U19 U20	SN74LVC1G125DCKR	GATE	SC-70	TEXAS INSTRUMENT	SN74LVC1G125DCKR
USBLC6-2SC6 - RESEAU DE DIODE TVS USB2	71	3	U21 U22 U26	USBLC6-2SC6	TVS/ESD/EMI	SOT23-6L	STMICROELECTRONICS	USBLC6-2SC6
6 LINES EMI FILTER ESD PROTECTION	72	1	U23	EMIF06-MSD02N16	TVS/ESD/EMI	MICROQFN16L	STMICROELECTRONICS	EMIF06-MSD02N16
MODULE SERIAL TO WIFI	73	1	U24	SPWF01SA	WIFI INTELLIGENT MODULE	SPWF01SA	STMICROELECTRONICS	SPWF01SA.11
IC, MCU, RISC, 512KB/96KB, TQFP-100	74	1	U25	STM32F401VE	MCU	LQFP100	STMICROELECTRONICS	STM32F401VET6
IC, MCU, RISC, 72 Mhz, 3.6V, 32-BIT, 48-PIN, LQFP	75	1	U27	STM32F103CBT6 LQFP48	MCU	LQFP48	STMICROELECTRONICS	STM32F103CBT6
XTAL 25MHZ 50PPM/40PPM 12PF 3.2x2.5mm	76	1	Y1	25MHZ	QUARTZ	50PPM/40PPM	TXC	7M-25.000MAHE-T
XTAL 8MHz-30PPM-10pF	77	1	Y2	8MHz	QUARTZ	30PPM	NX3225	NX3225GD-8MHZ-STD-CRA-3