



Title		
Size	Number	Revision
A2		
Date	25.06.2013	Sheet of
File: C:\PROJECT_1\STM32F100 SchDoc		Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
		BT1	BT2	Component_1	1
Cap polar_1	Capacitor (Model Sergeev)	C1, C7	LZ 18.5x36 4700 ±: S X 35	Cap polar_1	2
Cap Semi	Capacitor (Semiconductor SIM Model)	C2, C4, C6, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C37, C39, C41	C0805 - wa	Cap Semi	32
	Capacitor	C3, C5, C8, C35, C38, C40, C42	CAPR5-4X5	Cap2	7
	Polarized Capacitor (Radial)	C36	RB7.6-15	Cap Pol1	1
MUR1100E	1 Amp General Purpose Rectifier	D1, D2, D3	DO-41	Diode 1N4001	3
MUR860	Schottky Rectifier	D4	TO-220AC	Diode 18TQ045	1
BAS16	High-speed Switching Diode	D5, D6, D7	SOT23_N	BAS16	3
1N4001	1 Amp General Purpose Rectifier	D8	DO-41	Diode 1N4001	1
DB107S	Diode Bridge 1A, 1000V, SMD	D9	DB-1S	Bridge2	1
ENCODER		ENC1	ENCODER2	ENCODER	1
OUT+		J1	pin	pin	1
OUT-		J2	pin	pin	1
L7		L1	30x10	AAAS; L	1
Inductor	Inductor	L2	2029	Inductor	1
Header 7X2	Header, 7-Pin, Dual row	P1	HDR2X7	Header 7X2	1
SWD	Header, 3-Pin	P2	HDR1X3	Header 3	1
Header 2	Header, 2-Pin	P3	HDR1X2	Header 2	1
; 0280E00	Header, 9-Pin	P4	HDR1X9	Header 9	1
BC817-40	NPN General purpose Transistor	Q1, Q6, Q7	SOT23_N	BC817-40	3
IRF9540N	HEXFET Power MOSFET	Q2	TO-220AB	IRF9540N	1
IRF1540N	HEXFET Power MOSFET	Q3	TO-220_FullPak	IRF1540N	1
BC807-40	PNP General purpose Transistor	Q4	SOT23_N	BC807-40	1
BC846	NPN General purpose Transistor	Q5, Q8, Q9, Q10, Q11	SOT23_N	BC846	5
Resistor 0805		R1, R2, R3, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55	2012[0805] - wa	Resistor 0805	53
Res 0.5W	Resistor 0.5W	R4	OMLT 0.5W	Res2 0.5W	1
0.1 Ohm	Metal (oxide) Film Fuse Resistor, Axial Leads, 0.33 Ohm to 3.3k Ohm Range, 5% and 10% Tolerance, 3 W	R35	R22x9.5	ERQ3C	1
Component_1		Relay1	15x19	Component_1	1
BV E1 303 2030		T1	33x27	Component_1	1
MC78M05CT	Three-Terminal Medium Current Positive Voltage Regulator	U1, U6	221A-09	MC78M05CT	2
AD8544AR	Low Cost, 250 mA Output Single-Supply Amplifier	U2	SO-14_N	AD8534AR	1
STM32F100C8T6	STM32 ARM-based 32-bit MCU with 128 Kbytes Flash, 48-pin LQFP, Industrial Temperature	U3	LQFP48_N	STM32F103C8T6	1
AD8544R	Low Cost, 250 mA Output Single-Supply Amplifier	U4	SO-14_N	AD8534AR	1
ICL7660	CMOS Voltage Converter	U5	NSO8_N	ICL7662CBA	1
	Three-Terminal Adjustable Output Positive Voltage Regulator	U7	318E-04	LM317MBSTT3	1
P6ke47	824 FRB 8 3 W 80V, 40 V	VD1	DO-201AD - wa	1N5822	1
Component_1		X1, X2, X3	2pin	Component_1	3
8 3F		Y1	20@F		1
32.768 3F	Crystal Oscillator	Y2	R38	XTAL	1