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Company: www.st.com <b>STMicroelectronics</b>		

Reference	Part Value	Description	Package	Manufacturer	Part Number
C1,C4,C7,C9,C12,C13,C36,C37,C38,C51	N.M.	SMT ceramic capacitor	Size 0603		
C2,C3	220nF/25V	SMT Ceramic Capacitor	Size 0603		
C5,C6,C8	470nF/50V	SMT Ceramic Capacitor	Size 0805		
C10,C32	47nF/25V	SMT Ceramic Capacitor	Size 0603		
C11	1nF/25V	SMT Ceramic Capacitor	Size 0603		
C14,C17,C18,C19,C20,C22,C24,C25,C27,C29,C35	33pF/25V	SMT Ceramic Capacitor	Size 0603		
C15	N.M.	Film, Metallized Polypropylene	4x13 mm, Pitch 10 mm	KEMET	R71MF31004030K or Equivalent
C16	33nF/630V	SMT multilayer Capacitor	Size 1210		
C21A	N.M.	SMT ceramic capacitor	Size 1206		
C21	10uF/25V	SMD Aluminum Elect. Capacitor	Size C	Panasonic	EEE-1EA100SR or equivalent
C23A	N.M.	SMT ceramic capacitor	Size 0805		
C23	4u7F/25V	SMD Aluminum Elect. Capacitor	Dim. 3.3x3.3 mm	Nichicon	UWX1E4R7MCL2GB or equivalent
C26,C28,C30	2.2pF/25V	SMT Ceramic Capacitor	Size 0603		
C31,C33,C42,C47,C49,C50	100nF/25V	SMT Ceramic Capacitor	Size 0603		
C34	68uF/450V	THT Electrolytic Capacitor, Radial p7.5 d18h25	Diam. 18 mm, pitch 7.5 mm	Rubycon	450BXW68MEFC18X25 or equivalent
C39,C40,C41	10pF/25V	SMT Ceramic Capacitor	Size 0603		
C44,C45,C46	4.7pF/50V	SMT Ceramic Capacitor	Size 0603		
C48	4.7uF/10V	SMT Ceramic Capacitor	Size 0805		
D1,D5,D6,D7,D8,D9,D11,D15,D16,D17,D18,D19,D20,D21,D22,D23	BAT54J	40V, 300mA Small signal Schottky SMT Diode	SOD-323	STMicroelectronics	BAT54JFILM or equivalent
D2,D3,D4	N.M.	Turbo 2 Ultrafast High-Voltage Rectifier	SMA	STMicroelectronics	STTH1L06A
D10	BZT52C3V3	Zener Diode 3.3 V	SOD-123		
D24,D25,D26	DA2JF8100L	800V Fast Recovery Diode	SC-90A (SMini2-F5-B)	Panasonic	DA2JF8100L or equivalent
JP1,JP17	CLOSED	SMT Jumper	Soldering pad		
JP2,JP3	OPEN	SMT Jumper	Size 0805		

JP4	OPEN	SMT Jumper	Soldering pad		
JP10,JP11,JP12	N.M.				
JP18,JP19,JP20	CLOSED 1-2	SMT Jumper	Soldering pad		
JP21	CLOSED 2-4	SMT Jumper	Soldering pads		
J1	MORSV-508-2P_screw	Connector terminal block T.H. 2 positions 5.08 mm	Pitch 5.08 mm	Phoenix Contact	1715721 or equivalent
J2	MORSV-508-3P_screw	Terminal block T.H. 3 positions, 5.08 mm	Pitch 5.08 mm	Phoenix Contact	1715857 or equivalent
J3	MORSV-350-3P_screw	Terminal block T.H. 3 positions, 3.5 mm	Pitch 3.5 mm	Wurth Elektronik	691214110003 or equivalent
J4	MOTOR CONN.	Header Vertical Connector 2x17 poles, pitch 2.54 mm	2x17 pins	TE Connectivity	3-1761603-1 or equivalent
J5	STRIP 1x13	Strip connector 13 pos, 2.54 mm	1x13 pins	Amphenol FCI	68000-413HLF or equivalent
J6	STRIP 1x5	Strip connector 5 pos, 2.54 mm	1x5 pins	Amphenol FCI	68000-405HLF or equivalent
Q1A,Q2A,Q3A,Q4A,Q5A,Q6A	N.M.	N-channel 600 V, 0.115 Ohm typ., 21 A MDmesh DM2 Power MOSFET	PowerFLAT 8x8	STMicroelectronics	STL33N60DM2
Q1,Q2,Q3,Q4,Q5,Q6	STGD6M65DF2	Trench gate field-stop IGBT, M series 650V, 6A low loss	DPAK	STMicroelectronics	STGD6M65DF2
R1,R7,R11,R15,R19,R25	10R	SMT Resistor	Size 0805		
R2,R5,R8	27R	SMT resistor	Size 0805		
R3,R9,R12,R16,R21,R26	100R	SMT Resistor	Size 0805		
R4,R10,R13,R17,R23,R27	100k	SMT Resistor	Size 0603		
R6,R62,R85,R112,R113,R117	0R	SMT Resistor	Size 0603		
R14,R38,R39	47k	SMT Resistor	Size 0603		
R18,R42,R47,R52,R61,R78,R79,R80	10k	SMT Resistor	Size 0603		
R20,R22,R24,R31,R32,R33,R34,R35,R37,R40,R72,R73,R74	1K	SMT resistor	Size 0603		
R30,R57,R58	220m/ 2W/ 1%	SMT Resistor	Size 1210/2512		
R36	1K8	SMT Resistor	Size 1206		
R41,R44,R46,R49,R51,R54,R75,R76,R77	1k8	SMT Resistor	Size 0603		
R45,R50,R55,R68,R69,R70	20k	SMT Resistor	Size 0603		
R59,R71	3R3	SMT Resistor	Size 0603		
R60	4k7	SMT Resistor	Size 0603		
R63,R82,R83,R84	N.M.	SMT Resistor	Size 0603		
R64,R65	470k	SMT Resistor	Size 1206		

R66	6.49k	SMT Resistor	Size 0805		
R67,R87,R93,R97	1k	SMT Resistor	Size 0805		
R86,R88,R92,R94,R96,R98	180k	SMT Resistor	Size 1206		
R91,R95,R99	3.3k	SMT Resistor	Size 0603		
R114	33k	SMT Resistor	Size 0603		
R115	10M	SMT Resistor	Size 0603		
TP1,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP31,TP32	N.M.	TP for Probe	Diam. 1.27, Hole 0.8mm		
TP29	TP-ANELLO_1mm-ROSSO	Red bead terminal, diam. 1.02mm	Diam. 2,54 , Hole 1mm	Vero Technologies	20-313137 or equivalent
TP30	TP-ANELLO_1mm-NERO	Black bead terminal, diam. 1.02mm	Diam. 2,54 , Hole 1mm	Vero Technologies	20-2137 or equivalent
U1	STDRIVE601	600V Triple half-bridge high-voltage gate driver	SO-28	STMicroelectronics	STDRIVE601/TR
U2,U3	TSV912IQ2T	Dual rail-to rail input/output 8 MHz operational amplifiers	DFN8 2x2	STMicroelectronics	TSV912IQ2T
U4	TS3021ILT	Rail-to-rail 1.8 V high-speed comparator	SOT23-5	STMicroelectronics	TS3021ILT
		Rubber feet		Hammond	1421T6CL or Equivalent
		P.C.B. EVALSTDRIVE601 Rev.1.0	Dim. 64.8x113.9 mm	STMicroelectronics	