

Document reference:

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Product reference:

EVSTDRIVEG600DM

Company: www.st.com

STMicroelectronics

Reference	Part Value	Description	Package	Manufacturer	Part Number
C1,C2,C5,C6,C16,C23,C25	100nF/25V/X7R	SMT ceramic capacitor	Size 0603		
C3,C7,C14,C18	1nF/25V/X7R	SMT ceramic capacitor	Size 0603		
C8,C20,C22	22pF/25V	SMT ceramic capacitor	Size 0603		
C10	1uF/25V/X5R	SMT ceramic capacitor	Size 0805		
C11	N.M.	Film, Metallized Polypropylene	Pitch 10 mm	(TDK)	(B32921C3103M or Equivalent)
C12	N.M.	SMT ceramic capacitor	Size 0805		
C13,C17	220nF/25V/X7R	SMT ceramic capacitor	Size 0603		
C15	10uF/35V	THT Electrolytic Capacitor	Diam. 5 p. 2,5 ,h=7mm	Multicomp	MCMR35V106M4X7 or Equivalent
C19	1nF/25V	SMT ceramic capacitor	Size 0603		
C21	N.M.	SMT ceramic capacitor	Size 0603		
C24	470nF/630V/X7R	SMT ceramic capacitor	Size 2225		
C26	N.M.	THT Electrolytic Capacitor	Diam. 22 p. 10		
C27	68uF/450V	THT Electrolytic Capacitor	Diam. 18mm p. 7.5mm	Rubycon	450BXW68MEFC18X25 or Equivalent
D1,D2	BAS70J	Low capacitance, low series inductance and resistance Schottky diodes	SOD-323	STMicroelectronics	BAS70JFILM or equivalent
D3	N.M.	Fast Rectifiers	SMA (DO- 214AC)		
JP9	OPEN	SMT jumper	Soldering pads		
J1	MORSV-508-3P_screw	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510003 or Equivalent
J2	STRIP 1x9	Strip connector 9 pos, 2.54 mm	1x9 pins	Amphenol FCI	68000-409HLF or equivalent
J3	N.M.	Strip connector 4 pos, 2.54 mm	1x4 pins	(Amphenol FCI)	(68000-404HLF or equivalent)
J4	68000-402HLF	Strip connector 2 pos, 2.54 mm	1x2 pins	Amphenol FCI	68000-402HLF or equivalent

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J5	N.M.	Strip connector 3 pos, 2.54 mm	1x3 pins	(Amphenol FCI)	(68000-403HLF or equivalent)
J6	MORSV-508-2P_screw	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510002 or Equivalent
Q1A,Q2A	STL33N60DM2	N-channel 600 V, 0.115 O typ., 21 A MDmesh DM2 Power MOSFET	PowerFLAT™ 8x8 HV	STMicroelectronics	STL33N60DM2 or equivalent
Q1,Q2	N.M.	Trench gate field-stop IGBT, M series 650V, 6A low loss	DKPAK	(STMicroelectronics)	(STGD6M65DF2 or Equivalent)
R1,R3,R23,R24,R25,R26	N.M.	SMT resistor	Size 0603		
R2,R4	47R	SMT resistor	Size 0603		
R5	47k	SMT resistor	Size 0603		
R6	N.M.	SMT resistor	Size 0603		
R7,R9	120R	SMT resistor	Size 0603		
R8,R10	4R7	SMT resistor	Size 0603		
R11	10k	SMT resistor	Size 0603		
R12	1k	SMT resistor	Size 0603		
R13,R19,R20	0R	SMT resistor	Size 0603		
R14,R15	10M	SMT resistor	Size 1206		
R16,R21,R22	0R	SMT resistor	Size 0805		
R17	10R	SMT resistor	Size 0805		
R18	10R	SMT resistor	Size 0805		
TP1,TP7,TP10	N.M.	TP for Probe	Pitch 5,08 mm		
TP2,TP3,TP4,TP8,TP9,TP11	N.M.	TP for Probe	Metallized Hole 0.8mm		
TP5,TP6,TP12,TP13	N.M.	TP for Probe	Pitch 2,54 mm		
TR1,TR2	1k	5 mm Square Surface Mount Miniature Trimmers Multi-Turn Cermet Sealed	TSM4YJ	VISHAY	TSM4YJ102K or equivalent
U1,U2,U4	74LVC1G17W5	SINGLE SCHMITT-TRIGGER BUFFER	SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G17W5 / -7 or equivalent
U3	74LVC1G14W5	SINGLE SCHMITT-TRIGGER INVERTER	SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G14W5 / -7 or equivalent

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U5	ST715M33R	High input voltage, 85 mA LDO linear regulator	SOT23-5L	STMicroelectronics	ST715M33R or equivalent
U6	STDRIVEG600	High voltage and high-speed half-bridge gate driver	SO-16	STMicroelectronics	STDRIVEG600D / TR
		Rubber feet		Hammond	1421T6CL or Equivalent
		P.C.B. EVSTDRIVEG600DM Rev.2.0	Dim. 54 x 88 mm	STMicroelectronics	