


Document reference: Vers.1.0	Product reference: EVSTGAP2GS	 life.augmented
Company: www.st.com STMicroelectronics		

All resistors are 1% tolerance unless otherwise indicated

All capacitors are X7R or COG dielectric unless otherwise indicated

Reference	Part Value	Description	Voltage	Package	Manufacturer	Part Number
CN1,CN2	BNC conn.	MMCX Straight PC Mount Jack Receptacle			Cinch	135-3701-201
CN3,CN4,CN5	TE 928814-1	Tab FASTON 250 Horizontal		Pitch 5,08mm	(TE Connectivity)	(63951-1)
C1,C2	470nF/X7R	SMT ceramic capacitor	630V	Size 2225		
C3	N.M.	THT Electrolytic Capacitor		Diam. 22 p. 10		
C4	N.M.	Capacitor		Pitch 37.5 mm, 22.5x41.5 mm	(WURTH ELEKTRONIK)	(890 324 028 008 CS)
C5,C7,C8,C11,C13,C14,C23	220nF/X7R	SMT ceramic capacitor	25V	Size 0603		
C6,C12,C31,C32	N.M.	SMT ceramic capacitor		Size 0603		
C9,C10,C15,C16,C37,C38	10pF/COG	SMT ceramic capacitor	50V	Size 0603		
C22,C24,C26,C28	1uF/X5R	SMT ceramic capacitor	25V	Size 0603		
C25,C30	220nF/X5R	SMT ceramic capacitor	25V	Size 0603		
C27	22uF	SMT ceramic capacitor	10V	Size 0805		
C29,C42	4.7uF	SMT ceramic capacitor	16V	Size 0603		
C33,C35	220pF/COG	SMT ceramic capacitor	50V	Size 0603		
C34,C36,C39,C40	100nF/X7R	SMT ceramic capacitor	25V	Size 0603		
D3,D5	MMSZ4692T1G	500 mW, Low IZT SOD-123 Surface Mount		SOD-123	ON Semiconductor	MMSZ4692T1G
D4,D7	MMSZ4682T1G	2.7V 500 mW, Zener Voltage Regulator		SOD-123	ON Semiconductor	MMSZ4682T1G/T3G
D6	MMSZ3V3T1G	Zener Voltage Regulator 500mW		SOD-123	ON Semiconductor	MMSZ3V3T1G
D8,D9	BAT54J	40V, 300mA Small signal Schottky Diode		SOD-323	STMicroelectronics	BAT54JFILM
FB1,FB2,FB3,FB4	BLM18PG221SN1	Ferrite Beads		Size 0603	Murata	BLM18PG221SN1
J1	STRIP 1x9	Strip connector 9 pos, 2.54 mm		1x9 pins	WURTH ELEKTRONIK	61300911121
J2,J6	N.M.	Strip connector 4 pos, 2.54 mm		1x4 pins	(WURTH ELEKTRONIK)	61300411121
J3,J4,J5	N.M.	Strip connector 3 pos, 2.54 mm		1x3 pins	WURTH ELEKTRONIK	61300311121
J8,J9	STRIP 1x4	Strip connector 4 pos, 2.54 mm		1x4 pins	WURTH ELEKTRONIK	61300411121
J10	MORSV-350-6P_screw	Terminal block T.H. 6 positions, 3.5 mm		Pitch 3,5 mm	Wurth Elektronik	691243110006

Reference	Part Value	Description	Voltage	Package	Manufacturer	Part Number
J11	MORSV-350-3P_screw	Terminal block T.H. 3 positions, 3.5 mm		Pitch 3,5 mm	Wurth Elektronik	691214110003
Q1,Q2	SGT120R65AL	650 V, 80 mO, 15 A, e-mode PowerGaN transistor		PowerFLAT 5x6 HV for Power GaN	STMicroelectronics	SGT120R65AL
Q3,Q4	BC847B	NPN General Purposes Transistor		SOT23		BC847B
R1,R8,R9,R11,R49,R50	47R	SMT resistor		Size 0603		
R2,R10	47R	SMT resistor		Size 0603		
R3,R12	1R	SMT resistor		Size 0603		
R4,R6,R14,R31,R41,R42,R44,R46,R48	N.M.	SMT resistor		Size 0603		
R5,R13,R26,R27	10k	SMT resistor		Size 0603		
R7,R28,R29	0R	SMT resistor		Size 0603		
R15,R16,R17,R18	0R	SMT resistor		Size 0805		
R30	240R	SMT resistor		Size 0603		
R34,R35	N.M	SMT resistor		Size 0603		
R43,R47	10k	SMT resistor		Size 0603		
R45	100k	SMT resistor		Size 0603		
R51,R52,R53,R54	0R	SMT resistor		Size 1206 (3216 Metric)		
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15	N.M.	TP for Probe		Diam. 1.27, Hole 0.8mm		
TR1,TR2	1k	1-4 Square Trimpot trimming potentiometer, Top Adjust		3266W	Bourns	3266W-1-102LF
U1,U2	STGAP2GS	Galvanically isolated 4 A single gate driver for Enhancement mode GaN FETs		SO8	STMicroelectronics	STGAP2GS
U4,U5	MGJ2D051509SC	5.2KVDC Isolated 2W Gate Drive DC/DC Converters			Murata	MGJ2D051509SC
U6,U7	74LVC1G86QW5	SINGLE 2 INPUT POSITIVE EXCLUSIVE OR GATE		SOT25	DIODES INCORPORATED	74LVC1G86QW5-7
U8,U9	74LVC1G17W5	SINGLE SCHMITT-TRIGGER BUFFER		SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G17W5 / -7