

EVALSTGAP2DM - Bill of Material

Part Reference	Part Value	Part Description
CN1,CN2	N.M.	Conn. term. block T.H. 2 POS 5.0 mm
CN3,CN4,CN5	TE 928814-1	Tab FASTON 250 Horizontal
C1	N.M.	MKP Film capacitor P 27.5 mm
C2	33nF/1250V	MKP Film capacitor P 15 mm
C3,C9	100nF/50V	SMT ceramic capacitor
C4,C6,C11	4.7uF/50V	SMT ceramic capacitor
C5,C12	N.M.	SMT ceramic capacitor
C7	100nF/16V	SMT ceramic capacitor
C8,C13,C20,C37	1uF/50V	SMT ceramic capacitor
C10,C16	1nF/25V	SMT ceramic capacitor
C14,C15	220pF/25V	SMT ceramic capacitor
C17	10uF/25V	SMT ceramic capacitor
C18	4.7uF/10V	SMT ceramic capacitor
C19,C23,C38	N.M.	SMT ceramic capacitor
C27,C28,C29,C31,C32,C33	1uF/50V	SMT ceramic capacitor
C34,C35	N.M.	SMT ceramic capacitor
C36	N.M.	Electrolytic Capacitor Diam 22mm, pitch 10mm
D1,D7	BZT585B2V7T	Zener Diode 2.7 V
D2	MMSZ3V3T1G	3.3V 500 mW, Zener diode
D3	STTH112A	Diode Ultrafast 1200 V, 1 A
D4,D5	STPS2L40ZFY	Diode Schottky 40 V, 2 A
D8,D10	BZT585B20T	Zener Diode 20 V
D9,D11	BZT585B16T	Zener Diode 16 V
D12,D13	N.M.	Diode Schottky 40 V, 2 A
FB1,FB2,FB3,FB4	BLM21AG471SN1	Ferrite Beads
JP1,JP2	CLOSED	Jumper to solder
JP3	1-2 CLOSE	Jumper to solder
JP4,JP5,JP7,JP11	OPEN	Jumper to solder
JP6,JP8,JP9,JP10	CLOSED	Jumper to solder
JP12	2-3 CLOSE	Jumper to solder
J1	MORSV-350-7P_screw	Conn. term. block T.H. 7 POS 3.5 mm
J2	STRIP 1x7	Strip conn. header 7 pos, 2.54 mm
Q1A,Q2A	N.M.	TO220 Footprint for Mos/IGBT High Voltage
Q1,Q2	N.M.	TO247 Footprint for Mos/IGBT High Voltage
Q3,Q4	2STF1360	Low voltage fast-switching NPN power transistors
R3	N.M.	SMT resistor

R4,R8	22 Ω	SMT resistor
R5,R9	2.2 Ω	SMT resistor
R6,R24	10 k Ω	SMT resistor
R7	N.M.	SMT resistor
R10,R11	100 Ω	SMT resistor
R12,R19,R20,R23	1k Ω	SMT resistor
R13,R15	0 Ω	SMT resistor
R17	240 Ω	SMT resistor
R21,R22	10 M Ω	SMT resistor
TP1,TP2,TP3,TP4,TP5,TP20,TP21, TP23,TP24,TP25,TP26,TP27,TP28	N.M.	TP for Probe
TP6,TP7,TP8,TP9	N.M.	Test pad SMD, 1.5 mm
TR1	N.M.	Multi turn Cermet Trimmer, 5 x 10mm, Top Adjust
T1,T2	N.M.	Common mode choke, SMD 4.7x4.5 mm
U1	STGAP2DM	gapLITE: galvanically isolated 4A, dual gate driver
U2,U3	MGJ2D051509SC	5 V to +15/-9V Isolated DC-DC converter, Murata
VP1	FULL	PCB Assembly version solder dot
VP2,VP3,VP4	EMPTY	PCB Assembly version solder dot