

## EVALSTGAP2SM - Bill of Material

Part Reference	Part value		Part description
	EVALSTGAP2SM	EVALSTGAP2SCM	
CN3, CN5, CN6	TE 928814-1		Faston 6.35 mm TAB
C1	N.M.		Film capacitor, 27.5mm pitch
C2	33 nF / 1.25 kV		Film capacitor, 15 mm pitch
C3, C5, C8, C16	100 nF / 50V		Ceramic capacitor, SMT 0603
C6, C10	N.M.		Ceramic capacitor, SMT 0805
C7	4.7 $\mu$ F / 16V		Ceramic capacitor, SMT 0603
C11	10 $\mu$ F / 25 V		Ceramic capacitor, SMT 0805
C12, C13, C14, C15	220 pF / 25V		Ceramic capacitor, SMT 0603
C17, C18, C20, C21	1 $\mu$ F / 50 V		Ceramic capacitor, SMT 0805
C19, C23	N.M.		Ceramic capacitor, SMT 0603
C22, C26	4.7 $\mu$ F / 50V		Ceramic capacitor, SMT 1206
C27, C28, C29, C31, C32, C33	1 $\mu$ F / 50 V		Ceramic capacitor, SMT 0603
C34, C35	N.M.		Ceramic capacitor, SMT 1812
C36	N.M.		Electrolytic capacitor $\varnothing$ 10 mm, pitch 5 mm
D1, D7	BZT585B2V7T		Zener Diode 2.7 V, SOD-523
D2	MMSZ3V3T1G		Zener Diode 3.3 V, SOD-123
D3	STTH112A		HV ultrafast diode 1200 V, 1 A, SMA
D4, D5	STPS2L40ZFY		Schottky Diode 40 V, 2 A, SOD-123
D8, D10	BZT585B20T		Zener Diode 20 V, SOD-523
D11, D13	BZT585B16T		Zener Diode 16 V, SOD-523
FB1, FB2, FB3, FB4	BLM21AG471SN1		Ferrite Bead 470 Ohm, SMT 0805
JP1, JP5, JP6, JP12, JP15, JP17, JP18, JP20	CLOSED		SMT Jumper
JP7, JP13, JP14, JP16, JP21	OPEN		SMT Jumper
JP9, JP11	CLOSED	OPEN	SMT Jumper
JP8, JP10	OPEN	CLOSED	SMT Jumper

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	EVALSTGAP2SM	EVALSTGAP2SCM	
JP22	CLOSED 2-3		SMT Jumper
J1, J2	N.M.		Connector header block T.H. 2 POS 5.08 mm
J9	PIN strip		Strip connector header 7 POS 2.54mm
J10	WE 691243110007 or similar		Connector header block T.H. 6 POS 3.5mm
Q1, Q2	To be selected by customer		N-channel IGBT or MOSFET up to 1700 V TO-247 (or TO-220)
Q5, Q6	BCX56		Transistor NPN, SOT-89
R1, R5	22 $\Omega$		Chip resistor, SMT 1210
R2, R4	2.2 $\Omega$		Chip resistor, SMT 1210
R3	N.M.		Chip resistor, SMT 1206
R8, R9, R10, R11	100 $\Omega$		Chip resistor, SMT 0603
R13, R15	0 $\Omega$		Chip resistor, SMT 0603
R17	240 $\Omega$		Chip resistor, SMT 0805
R19, R22	1 k $\Omega$		Chip resistor, SMT 0603
R23, R24	10 M $\Omega$		Chip resistor, SMT 1206
TP4, TP8, TP9	Test point		Loop test point, THT
TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23	Test point		Pad test point, SMD
T1, T2	N.M.		Common mode choke TDK ACM4520, SMD 4.7x4.5 mm
U5, U6	MGJ2D051509SC		5V to +15/-9 V Isolated DC-DC converter, Murata
U1, U2	STGAP2SM	STGAP2SCM	Isolated 4 A single gate driver, SO8