

Filename: MDBU003A\_BOM.xls  
 Variant: None  
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## BOOSTXL-DRV8305EVM

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB	Printed Circuit Board	Any	MDBU003	1
C1, C3, C9, C17	CAP, CERM, 1 $\mu$ F, 16 V, +/- 10%, X7R, 0603	TDK	C1608X7R1C105K	4
C2, C7	CAP, CERM, 0.047 $\mu$ F, 100V, +/-10%, X7R, 0603	Kemet	C0603C473K1RACTU	2
C4, C5, C6, C20	CAP, CERM, 1 $\mu$ F, 50 V, +/- 10%, X7R, 0603	Taiyo Yuden	UMK107AB7105KA-T	4
C8	CAP, CERM, 4.7 $\mu$ F, 50 V, +/- 10%, X7R, 1206	MuRata	GRM31CR71H475KA12L	1
C10, C11, C12, C22	CAP, CERM, 0.1 $\mu$ F, 16 V, +/- 5%, X7R, 0603	Kemet	C0603C104J4RACTU	4
C13, C14, C16	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C102KA01D	3
C15	CAP, CERM, 2.2 $\mu$ F, 100 V, +/- 10%, X7R, 1210	MuRata	GRM32ER72A225KA35L	1
C18, C19	CAP, AL, 330 $\mu$ F, 50 V, +/- 20%, 0.3 ohm, SMD	Panasonic	EEE-FT1H331AP	2
C21	CAP, CERM, 22 $\mu$ F, 10 V, +/- 10%, X7R, 1206	MuRata	GRM31CR71A226KE15L	1
C23, C24, C25	CAP, CERM, 2200pF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C222KA01D	3
C26	CAP, CERM, 0.33 $\mu$ F, 16 V, +/- 10%, X7R, 0603	MuRata	GRM188R71C334KA01D	1
D1	LED, Red, SMD	Lite-On	LTST-C170KRKT	1
D2	Transient Voltage Suppressors, 5 V, TSOP-6	ON Semiconductor	NUP4201MR6T1G	1
D3	LED, Green, SMD	Lite-On	LTST-C171GKT	1
D4	Diode, Schottky, 100 V, 1 A, SOD-123FL	ON Semiconductor	MBR1H100SFT3G	1
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
J1, J2	Receptacle, 2.54 mm, 10x2, Gold, TH	Major League Electronics	CRD-081413-A-G	2
J3	Terminal Block, 5 mm, 2x1, Tin, TH	Würth Elektronik eiSos	691 101 710 002	1
J4	Terminal Block, 5 mm, 3x1, Tin, TH	Würth Elektronik eiSos	691 101 710 003	1
L1	Inductor, Shielded Drum Core, Ferrite, 15 $\mu$ H, 1.1 A, 0.122 ohm, SMD	Cooper Bussman	SD53-150-R	1
Q1, Q2, Q3, Q4, Q5, Q6	MOSFET, N-CH, 60 V, 28 A, SON 5x6mm	Texas Instruments	CSD18540Q5B	6
R1, R3	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	2
R2	RES, 100 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100RJNEA	1
R4, R5, R6	RES SMD 0.007 OHM 1% 3W 2512	Bourns Inc.	CRE2512-FZ-R007E-3	3
R7, R15	RES, 330 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603330RJNEA	2
R8, R9, R10, R14	RES, 62.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0762KL	4
R11, R12, R13, R16	RES, 4.99 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-074K99L	4
R17, R18, R19	RES, 56 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060356R0JNEA	3
R20	RES, 68.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0768KL	1
R21	RES, 20.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060320K0FKEA	1
U1	Three Phase Automotive Gate Driver with Three Integrated Current Shunt Amplifiers and Voltage Regulator, PHP0048G	Texas Instruments	DRV8305NPHPQ1	1
U2	Wide Input Voltage Range Buck Regulator with High Efficiency Sleep Mode, DDC0006A	Texas Instruments	LMR16006XDDC	1