

## MAXREFDES89 BOM

Designation	Qty	Description
U1	1	IC REG BUCK SYNC 5V 0.5A 10TDFN
U2	1	IC I/O EXPANDER 2WIRE 40TQFN
U3-U4	2	IC POT DGTL 256-TAP 14TSSOP
U5, U7, U9, U11	4	IC MULTIPLEXER 4X1 12TQFN
U6, U8, U10, U12	4	IC MOTOR DVR DC FULL BR 16TSSOP
P1, P6-P9	5	TERMINAL BLOCK 5.08MM 2POS PCB
P2, P4	2	Connector Receptacle 8 Position 0.100" (2.54mm) Gold Through Hole
P3	1	Connector Receptacle 6 Position 0.100" (2.54mm) Gold Through Hole
P5	1	Connector Receptacle 10 Position 0.100" (2.54mm) Gold Through Hole
D1	1	LED GREEN 0805 SMD
L1	1	Power inductor, shielded, 20% tol, SMT, RoHS
R1	1	RES SMD 15.8K OHM 1% 1/8W 0805
R3, R4	2	RES SMD 2.2K OHM 1% 1/8W 0805
R5, R8, R9, R12, R13, R17, R21, R30, R33, R39, R42, R48, R51, R57, R60, R66	16	DNI
R6, R7, R10, R11, R14, R18, R22, R31, R40, R49, R58, R67	12	RES SMD 0.0 OHM JUMPER 1/8W 0805
R15, R16, R19, R20, R26, R29, R35, R38, R44, R47, R53, R56, R68, R69, R70, R71, R72, R73, R74, R75	16	RES SMD 10K OHM 1% 1/8W 0805
R23	1	RES SMD 39K OHM 5% 1/8W 0805
R24	1	RES SMD 220 OHM 1% 1/8W 0805
R25, R34, R43, R52	4	RES SMD 34K OHM 1% 1/8W 0805
R27, R28, R36, R37, R45, R46, R54, R55	8	RES SMD 1K OHM 1% 1/8W 0805
R32, R41, R50, R59	4	RES SMD 0.1 OHM 1% 1W 1206
C1	1	CAP AL Electrolytic 330uF 10x10mm
C2	1	CAP CER 1UF 100V 10% X7R 1206
C3, C7,	2	CAP CER 1UF 6.3V 10% X7R 0805
C15, C16, C19, C20, C23, C24, C27, C28	8	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1206 2.2uF 100volts X7R 10%
C5	1	CAP CER 10UF 10V 10% X7R 1206
C6	1	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 0.047uF 50volts X7R 5%
C8, C9, C10, C11	4	CAP CER 10UF 10V 10% X7R 0805
C4, C12, C13, C14, C18, C22, C26	6	CAP CER 0.1UF 10V 10% X7R 0805
C17, C21, C25, C29	4	CAP CER 220PF 16V 10% X7R 0805
D2	1	DIODE SCHOTTKY 20V 500MA SOD323F
R62	1	RES SMD 3.32M OHM 1% 1/8W 0805
R63	1	RES SMD 590K OHM 1% 1/8W 0805
R64	1	RES SMD 113K OHM 1% 1/8W 0805
C31	1	CAP CER 2700PF 50V 5% NP0 0805
C30	1	CAP CER 10PF 50V 5% NP0 0805
R65	1	RES SMD 35.7K OHM 1% 1/8W 0805
JP1	1	CONN HEADER 3POS .100" T/H GOLD
Shunt	1	SHUNT JUMPER .1" BLACK GOLD
C32	1	CAP CER 390PF 50V 5% NP0 0805
R61	1	RES SMD 470 OHM 1% 1/8W 0805
RESET	1	SWITCH TACTILE SPST-NO 0.05A 12V
R2	1	RES SMD 100K OHM 1% 1/8W 0805