[REF67012-EVK-001] BOM



Parts Type		Part Number	
BOOST CV		BD18354MUF-M	U2
	Buck LED driver/2ch	BD18397RUV-M	U11
	Buck LED driver/3ch	BD18398RUV-M	U12
	MCU/64PIN	ML63Q805X	U5
IC	LIN Transceiver	BD41030FJ-C	U6
	CAN Transceiver	BD41044FJ-C	U7, U8
	DCDC Converter	BD9P608MFF-C	U4
	LDO	BD450S2EFJ-C	U1
	LDO	BD450S2WEFJ-C	U3
Transistor	Pch MOSFET/VDSS -40V ID 40A	RH7G04BBJ	Q1
Halisisioi	Nch MOSFET/VDSS 100V ID 59A	RD3P06BBK	Q2, Q3
	Zener Diodes/VZ 10V IR0.1µA	EDZVFH10B	D1
	Bidirectional TVS/VRWM 24V IR0.1µA	RESD1CANYFH	D7, D9
	Bidirectional TVS/VRWM 24V IR0.1µA	ESD27VHYFH	D5
Diode	TVS/VRWM 13V IR0.1µA	VS13VUA1VWMTF	D4
	Schottky diode100V 10A	RB088RSM10	D2, D3
	Schottky diode/100V 2A	NC/RB068MM100TF	D10, D11
	Schottky diode/100V 2A	RB068MM100TF	D12, D13, D14, D15
	6.8µH@4.8A	MDH10060C-6R8NB=P3	L4
	22µH@3.5A	MDH10060C-220MB	L6,L7, L9, L10, L11
Inductor	Common mode choke/100µH(at 1MHz)	DLW43SH101XK2	U10, U9
	10µH@15.2A	SPM10065VT-100M-D	L1,L3
	4.7µH@6.7A	SPM10065VT-4R7	L2
	4.7µF/50V	GCM31CC71H475KA03	C1, C2, C3, C6, C7, C8, C9, C10, C11, C34, C35, C36
	100nF/50V	GCM155L8EH104KE07	C4, C5, C24, C31, C37, C43, C46, C113, C114, C133, C134, C136, C142
	100nF/100V	GCM21BR72A104KA37	C13, C38, C98, C105, C106, C118, C123, C126
	4.7μF/100V	GCM32DC72A475KE02L	C14, C15, C16, C17, C39, C40, C41, C42, C101, C102, C103, C104, C121, C122, C124, C125
	0.047μF/16V	GCM155L81C473KA37	C18, C33
	4.7μF/16V	GCM21BR71C475KA67L	C21, C27, C70, C74, C82, C108, C110, C128, C130
	10μF/16V	GCM21BC71C106KE36	C22, C29
	100nF/16V	GCM155R71C104KA55	C25, C32, C54, C58, C59, C60, C62, C63, C64, C66, C67, C68, C69, C71, C72, C73, C77, C78, C80, C83, C86, C88, C90, C91
	1μF/50V	GCM188D71H105KE36	C26, C48, C107, C127
Capacitor	10μF/50V	GCM31CD71H106KE36	C45
	0.022µF/50V	GCM155R71H223KA55J	C47
	22µF/16V	GCM31CC71C226ME36	C49, C50, C51, C52, C53
	1nF/16V	GCM033R71E102KA03	C55, C85
	1μF/16V	GCM188R71C105KA64	C61, C65, C75, C76, C79, C81
	4.7nF/50V	GCM155L81H472KA37	C92, C93
	2.2µF/10V	GCM188C71A225KE02	C109, C115, C129, C135, C139
	0.22μF/100V	GCM31MR72A224KA37	C111, C112, C116, C117, C131, C132, C137, C138, C140, C141
	NC	-	C28, C99, C100, C119, C120, C143
	100μF/100V	100SEV100M12.5X16	C12, C20

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Parts Type		Part Number		
	10ΚΩ/1%	MCR01MZPF1002	R1, R2, R6, R15, R16, R18, R22, R28, R37, R38, R39, R40, R43, R44, R45, R48, R53, R57, R58, R105, R106, R107, R108, R109, R111	
	0.02Ω/1%	LTR18EZPFSR020	R3, R25	
	6.8ΚΩ/5%	MCR01SMQPJ682	R4, R24	
	47ΚΩ/1%	MCR01SMQPF4702	R5, R9, R68, R76, R84, R92, R97	
	2.2Ω/5%	MCR01SMQPJ2R2	R7, R19	
	2.4ΚΩ/5%	MCR01SMQPJ243	R8, R23, R52	
	0Ω/1%	MCR01MZPJ000	R10, R26, R32, R34, R35, R41, R47, R50, R55, R56, R66, R71, R73, R81, R87, R89, R90, R110	
	NC		R11, R29, R31, R33, R36, R100, R101, R102, R103, R104	
	0.1ΚΩ/1%	MCR01SMQPF1000	R12	
	30ΚΩ/5%	MCR01SMQPJ303	R17	
Resistor	620ΚΩ/1%	MCR01SMQPF6203	R20	
	24.9ΚΩ/1%	MCR01SMQPF2492	R21	
	80.6ΚΩ/1%	MCR01SMQPF8062	R27	
	20ΚΩ/1%	MCR01SMQPF2002	R30	
	1ΚΩ/5%	MCR01SMQPF1001	R42, R46, R49, R51, R63, R64, R69, R72, R78, R79, R83, R85, R93, R94	
	33ΚΩ/5%	MCR01SMQPJ333	R54	
	62Ω/1%	MCR03SEQPF62R0	R59, R60, R61, R62	
	4.7Ω/5%	MCR01SMQPJ4R7	R65, R74, R80, R88, R95	
	100mΩ/1%	LTR18EZPFLR100	R67, R75, R82, R91, R96	
	51K/1%	MCR01SMQPF5102	R70, R86	
	4.7ΚΩ/5%	MCR01SMQPJ472	R77, R98	
Bead	30Ω@at 100MHz/5A	BLM18KG300TH1	BEAD1	
	240Ω@at 100MHz/350mA	BLM15AG700SH1	BEAD2, BEAD3	
Crystal	8MHz	CSTNE8M00G52A000R0	Y1	
Connector	2X1/Board to board connector	2182160220	J1, J2, J3, J4, J5, J6	
	5X2 2.54mm/ Pin header	NC	P1	
Connector	8X2 1.27mm/ Pin header	NC	P2,P5,P8	
	5X2 1.27mm/ Pin header	NC	P6	

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