

Bill of Materials

MIC28515 75V/5A HLL Step Down EVB

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 Engineer: Surya Talari
 Drawn By: Razvan Costache



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 4700pF 50V 10% X7R SMD 0603	KEMET	C0603C472K5RACTU	Digi-Key	399-1087-1-ND
2	C4, C8	CAP CER 2.2uF 16V 10% X5R SMD 0603	TDK	C1608X5R1C225K	Digi-Key	445-5157-1-ND
1	C5	CAP CER 1uF 100V 10% X7S SMD 0805	TDK Corporation	C2012X7S2A105K125AB	Digi-Key	445-5205-1-ND
3	C7, C10, C17	CAP CER 0.1uF 100V 10% X7R SMD 0603	Murata Electronics North America	GRM188R72A104KA35D	Digi-Key	490-3285-1-ND
1	C9	CAP CER 4.7uF 25V 10% X5R SMD 0805	Murata	GRM21BR61E475KA12L	Digi-Key	490-3335-1-ND
3	C12, C13, C14	CAP CER 47uF 16V 20% X5R SMD 1210	Yageo	CC1210MKX5R7BB476	Digi-Key	311-2054-1-ND
1	C15	CAP ALU 330uF 25V 20% SMD F	Nichicon	UWT1E331MNL1GS	Digi-Key	493-2193-1-ND
1	C16	CAP CER 0.1uF 16V 10% X7R SMD 0603	AVX	0603YC104KAT2A	Digi-Key	478-1239-1-ND
3	C18, C19, C20	CAP CER 2.2uF 100V 10% X7R SMD 1210	KEMET	C1210C225K1RACTU	Digi-Key	399-5511-1-ND
1	C21	CAP ALU 39uF 100V 20% RAD P3.5D8H15	United Chemi-Con	EKZE101ELL390MH15D	Digi-Key	565-1733-ND
9	J1, J2, J3, J4, J7, J8, J9, J11, J12	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
2	J5, J6	CON HDR-2.54 Male 1x3 Gold 5.84MH TH VERT	FCI	68000-103HLF	Digi-Key	609-3461-ND
1	J10	CON HDR-2.54 Male 2x6 Gold 5.84MH TH VERT	Samtec	TSW-106-07-G-D	Digi-Key	SAM1028-06-ND
2	J13, J14	CON JACK Banana Blue Female 4.0mm TH R/A	MULTICOMP	24.243.5	Newark	80P3614
1	L1	INDUCTOR 8.2uH 17.1A 20% SMD L11.3W10H10	Coilcraft	XAL1010-822MEB	Farnell	2289020
2	PVIN, VOUT	CON JACK Banana RED 4.0mm Female TH R/A	MULTICOMP	24.243.1	Newark	80P3616
1	R1	RES TKF 100k 5% 1/10W SMD 0603 (Don't Use, Duplicate, Use RSMT0026)	Panasonic	ERJ-3GEYJ104V	Digi-Key	P100KGCT-ND
1	R2	RES TKF 30k 1% 1/10W SMD 0603	Stackpole Electronics Inc	RMCF0603FT30K0	Digi-Key	RMCF0603FT30K0TR-ND
3	R3, R4, R10	RES TF 10k 1% 1/8W SMD 0603	Vishay Beyschlag	MCT06030C1002FP500	Digi-Key	MCT0603-10.0K-CFTR-ND
1	R5	RES TKF 3.16k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF3161V	Digi-Key	P3.16KHTR-ND
1	R6	RES TKF 2.2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2201V	Digi-Key	P2.20KHCT-ND
1	R7	RES TKF 200k 1% 1/10W SMD 0603	Vishay	CRCW0603200KFKEA	Digi-Key	541-200KHCT-ND
1	R8	RES TF 100k 1% 1/8W SMD 0603	Vishay	MCT06030C1003FP500	Digi-Key	MCT0603-100K-CFTR-ND
1	R9	RES TKF 2R 1% 1/4W SMD 0603	Vishay Dale	CRCW06032R00FKEAHP	Digi-Key	541-2.00SCT-ND
1	R11	RES SMD 1.6K OHM 1% 1/10W 0603	Vishay Dale	CRCW06031K60FKEA	Digi-Key	541-1.60KHCT-ND
1	R12	RES TKF 0R 1/10W SMD 0603	Panasonic	ERJ-3GSY0R00V	Digi-Key	P0.0GTR-ND
2	R13, R14	RES TKF 1R 1% 1/10W SMD 0603	Yageo	RC0603FR-071RL	Digi-Key	311-1.00HRCT-ND
1	R15	RES TKF 16.2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1622V	Digi-Key	P16.2KHCT-ND
1	R17	RES TKF 49.9R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF49R9V	Digi-Key	P49.9HCT-ND
1	R18	RES TKF 1.37k 1% 1/10W SMD 0603	Yageo	RC0603FR-071K37L	Digi-Key	311-1.37KHRCT-ND

1	R19	RES TKF 523R 1% 1/10W SMD 0603	Panasonic Electronic Components	ERJ-3EKF5230V	Digi-Key	P523HCT-ND
1	R20	RES TKF 15R 1% 1/16W SMD 0603	Stackpole Electronics Inc	RMCF0603FT15R0	Digi-Key	RMCF0603FT15R0CT-ND

Microchip Parts listed below

1	U1	MCHP ANALOG SWITCHER Buck MIC28515T-E/PHA VQFN-32	Microchip	MIC28515T-E/PHA	Microchip	MIC28515T-E/PHA
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Mechanical Parts to be added in the package

2	JP1, JP2	MECH HW JUMPER 2.54mm 1x2 Handle Gold	TE Connectivity	881545-2	Digi-Key	A26242-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D9.53H5.97	3M	SJ61A2	Digi-Key	SJ5748-0-ND

Do Not Populate Parts listed below

1	C2	CAP CER 10pF 50V 0.5pF C0G SMD 0603	TDK	C1608C0G1H100D	Digi-Key	445-1269-1-ND
1	C3	CAP CER 0.010uF 25V 10% X7R SMD 0603	Yageo	CC0603KRX7R8BB103	Digi-Key	311-1360-1-ND
1	C11	CAP CER 1000pF 50V 20% X7R SMD 0603	Panasonic	ECJ-1VB1H102K	Digi-Key	PCC1772TR-ND
1	R16	RES TKF 1R 1% 1/10W SMD 0603	Yageo	RC0603FR-071RL	Digi-Key	311-1.00HRCT-ND