

<u>Qty</u>	<u>RefDes</u>	<u>Part Number</u>	<u>Value</u>	<u>Description</u>	<u>Mfr</u>	<u>Size</u>
5	C10, C23, C25, C29, C30	GRM39X7R103K025A	0.01uF	Capacitor, Ceramic, 0.01uF, 25V, X7R, 10%	muRata	603
2	C9, C32	GRM39X7R223K025A	0.022uF	Capacitor, Ceramic, 0.022uF, 25V, X7R,	muRata	603
1	C46	GRM39X7R473K025A	0.047uF	Capacitor, Ceramic, 0.047uF, 25V, X7R,	muRata	603
2	C27, C35	GRM39X7R104K016A	0.1uF	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	muRata	603
4	C12, C15, C24, C43	GRM39COG470J050A	47 pF	Capacitor, Ceramic, 47pF, 50V, COG, 5%	muRata	603
	C13	GRM39COG680J050A	68 pF	Capacitor, Ceramic, 67pF, 50V, COG, 5%	muRata	603
1	C19	GRM39COG101K50A	100pF	Capacitor, Ceramic, 100pF, 50V, COG, 5%	muRata	603
2	C14, C36	GRM39COG471J050A	470 pF	Capacitor, Ceramic, 470pF, 50V, COG, 5%	muRata	603
1	C16	GRM39X7R122K050A	1200pF	Capacitor, Ceramic, 1200pF, 50V, X7R, 10%	muRata	603
2	C42, C44	GRM39X7R222K050A	2200pF	Capacitor, Ceramic, 2200pF, 50V, X7R, 10%	muRata	603
2	C39, C45	GRM39X7R332K050A	3300pF	Capacitor, Ceramic, 3300pF, 50V, X7R, 10%	muRata	603
1	C18	GRM39X7R562K050A	5600pF	Capacitor, Ceramic, 5600pF, 50V, X7R, 10%	muRata	603
5	C11, C22, C37, C38, C47	GRM40X7R105K016A	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
2	C4	GRM42-	1000pF	Capacitor, Ceramic, 1000pF, 100V, COG,	muRata	1206
	C1	GRM42-	OPEN	Capacitor, Ceramic, 1000pF, 100V, COG,	muRata	1206
1	C7	ECJ-2YB2D103K	OPEN	Capacitor, Ceramic, 0.01uF, 200V, X7R,	Panasonic	805
1	C50	GRM43-	0.1uF	Capacitor, Ceramic, 0.1uF, 200V, X7R, 10%	muRata	1812
6	C3, C5, C8, C17, C26, C31	TMK325BJ475MN	4.7uF	Capacitor, Ceramic, 4.7uF, 25V, X5R	Taiyo Yuden	1210
4	C21, C34, C40, C49	EMK325BJ106KN	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	Taiyo Yuden	1210
1	C6	475K100CS4G	4.7uF	Capacitor, MLP, 4.7uF, 100V, 10%	ITW PAKTRON	0.500x0.525
2	C2, C28 C20, C33,	20SVP47M	47uF	Capacitor, OS-CON, 47uF, 20V, 20%	Sanyo	0.315

4	C41, C48	4TPC150M	150uF	Capacitor, POSCAP, 150uF, 4V, 20%	Sanyo	7343 (D)
1	D5	BAS16		Diode, Switching, 100mA, 85V, 350mW	On Semi	SOT23
2	D3, D11	BAS21		Diode, Switching, 100mA, 200V, 350mW	On Semi	SOT23
2	D2	MURS120T3		Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
	D4	MURS120T3	OPEN	Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
1	D1	MBRB20100CT		Diode, Dual Schottky, 20A, 100V	On Semi	D2PAK
5	D6, D7, D8, D9, D10	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD123
1	L3	DR127-6R8	6.8uH	Inductor, SMT, 6.8uH, 7.34A	Coiltronics	12.5mm sq
1	L4	DR74-3R3	3.3uH	Inductor, SMT, 3.3uH, 4.43A	Coiltronics	7.6mm sq
1	L2	DR127-100	10uH	Inductor, SMT, 10uH, 6.04A	Coiltronics	12.5mm sq
1	L1	PE-54038S	77uH	Inductor, SMT, 77uH, 2.7A,	Pulse	0.94 sq
1	T1	P8203T		Transformer, Current Sense, 1:30	Pulse	0.28x0.33
1	L5	SDS0402T-682M-S	6.8mH	Inductor, SMT, 6.8mH	GCI	6.6x4.45mm
1	T2	G013102		Transformer, Power, Custom	GCI	1.18x.886
2	R8, R13	Std	1K	Resistor, Chip, 1K Ohms, 1/16W, 1%	Std	603
1	R27	Std	1.30K	Resistor, Chip, 1.30K Ohms, 1/16W, 1%	Std	603
1	R16	Std	1.5K	Resistor, Chip, 1.50K Ohms, 1/16W, 1%	Std	603
2	R29, R32	Std	1.87K	Resistor, Chip, 1.87K Ohms, 1/16W, 1%	Std	603
1	R9	Std	5.11K	Resistor, Chip, 5.11K Ohms, 1/16W, 1%	Std	603
1	R17	Std	5.49K	Resistor, Chip, 5.49K Ohms, 1/16W, 1%	Std	603
1	R11	Std	5.76K	Resistor, Chip, 5.76K Ohms, 1/16W, 1%	Std	603
1	R25	Std	6.19K	Resistor, Chip, 6.19K Ohms, 1/16W, 1%	Std	603
1	R20	Std	6.65K	Resistor, Chip, 6.65K Ohms, 1/16W, 1%	Std	603
1	R24	Std	7.50K	Resistor, Chip, 7.50K Ohms, 1/16W, 1%	Std	603
5	R7, R22, R23, R31, R34	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
	R33	Std	10.2K	Resistor, Chip, 10.2K Ohms, 1/16W, 1%	Std	603
1	R28	Std	15.4K	Resistor, Chip, 15.4K Ohms, 1/16W, 1%	Std	603
1	R10	Std	16.5K	Resistor, Chip, 16.5K Ohms, 1/16W, 1%	Std	603
2	R19, R30	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
1	R18	Std	59.0K	Resistor, Chip, 59.0K Ohms, 1/16W, 1%	Std	603
1	R12	Std	1.96K	Resistor, Chip, 1.96K Ohms, 1/16W, 1%	Std	603
1	R37	Std	4.7	Resistor, Chip, 4.7 Ohms, 1/10W, 1%	Std	805
1	R14	Std	6.8	Resistor, Chip, 6.8 Ohms, 1/10W, 1%	Std	805
2	R21, R26	Std	10	Resistor, Chip, 10 Ohms, 1/10W, 5%	Std	805
2	R3, R15	Std	100	Resistor, Chip, 100 Ohms, 1/10W, 5%	Std	805
1	R6	Std	44.2K	Resistor, Chip, 44.2K Ohms, 1/8W, 1%	Std	1206

4	R2, R36	Std	15	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
	R1, R35	Std	OPEN	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
2	R4, R5	Std	OPEN	Resistor, Chip, 8.2K Ohms, 1W, 5%	Std	2512
1	U3	TL431AID		IC, Shunt Regulator, 1%	TI	SO8
1	U4	TPS5120DBT		IC, Dual, PWM, Sync Buck	TI	TSSOP30
	Q3, Q4, Q5,					
4	Q6	IRF7811A		MOSFET, N-ch, 28V, 12-milliohm	IR	SO8
1	Q1	IRFS17N20D		MOSFET, N-ch, 200V, 170milliohms	IR	D2PAK
1	Q2	MMBT2907A		Transistor, PNP	On Semi	SOT23
1	U5	TPS54610PWP		IC, Low Voltage Sync Buck IFET Controller	TI	HTSSOP-28
1	U2	UCC2809D-2		IC, Economy Primary-Side Controller	TI	SO8
1	U1	MOC206		IC, Optocoupler	Fairchild	SO8
1	J1	ED555/2DS		Terminal Block, 2-pin, 6-A, 3.5mm	OST	6.5x7mm
2	J2, J3	ED555/4DS		Terminal Block, 4-pin, 6-A, 3.5mm	OST	6.5x14mm
1		573300D00010		Heatsink, D2PAK	Aavid	0.50x1.03

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