

Count	RefDes	Description	Value	MFR	Part Number	Size
2	C16	Capacitor, Ceramic, .01uF, 25V, X7R, 10%	.01uF	muRata	GRM39X7R103K025A	603
	C18	Capacitor, Ceramic, .01uF, 25V, X7R, 10%	.01uF	muRata	GRM39X7R103K025A	603
1	C2	Capacitor, Ceramic, 0.1-uF, 16-V, 10%	0.1uF	muRata	GRM39X7R104K016A	603
7	C5	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C6	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C7	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C8	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C13	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C14	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
	C15	Capacitor, Ceramic, 0.1uF, 16V, X7R, 10%	0.1uF	muRata	GRM39X7R104K050A	603
4	C11	Capacitor, Ceramic, 1uF, 6.3V, X7R, 10%	1uF	muRata	GRM39X7R105K06.3A	603
	C19	Capacitor, Ceramic, 1uF, 6.3V, X7R, 10%	1uF	muRata	GRM39X7R105K06.3A	603
	C20	Capacitor, Ceramic, 1uF, 6.3V, X7R, 10%	1uF	muRata	GRM39X7R105K06.3A	603
	C24	Capacitor, Ceramic, 1uF, 6.3V, X7R, 10%	1uF	muRata	GRM39X7R105K06.3A	603
1	C22	Capacitor, Ceramic, 150pF, 50V, NPO, 5%	150pF	muRata	GRM39xxxxxxx	603
2	C10	Capacitor, Ceramic, open, 25V, X7R, 10%	open	muRata	GRM39X7R103K025A	603
	C23	Capacitor, Ceramic, open, 25V, X7R, 10%	open	muRata	GRM39X7R103K025A	603
1	C3	Capacitor, Ceramic, open, 50V, NPO	open	muRata	GRM39yyyyxxxKvvvA	603
3	C1	Capacitor, Ceramic, 4.7uF, 6.3V, X5R	4.7uF	muRata	GRM21BR60J475KA11B	805
	C9	Capacitor, Ceramic, 4.7uF, 6.3V, X5R	4.7uF	muRata	GRM21BR60J475KA11B	805
	C17	Capacitor, Ceramic, 4.7uF, 6.3V, X5R	4.7uF	muRata	GRM21BR60J475KA11B	805
1	C4	Capacitor, Ceramic, 10uF, 6.3V, X5R	10uF	muRata	GRM21BR60J106K***B	805
2	C12	Capacitor, Ceramic, 10uF, 16V, X5R	10 uF	Taiyo Yuden	EMK325BJ106MN	1210
	C21	Capacitor, Ceramic, 10uF, 16V, X5R	10 uF	Taiyo Yuden	EMK325BJ106MN	1210
2	D1	Diode, Schottky, 1A, 30V	MBRS130T3	On Semiconductor	MBRS130T3	SMB
	D2	Diode, Schottky, 1A, 30V	MBRS130T3	On Semiconductor	MBRS130T3	SMB
1	L2	Inductor, SMT, 3.8uH	3.8uH	Sumida	CDRH104R-3R8	0.405 sq
2	L1	Inductor, SMT, 10uH	10uH	Sumida	CDRH104R-100	0.405 sq
	L3	Inductor, SMT, 10uH	10uH	Sumida	CDRH104R-100	0.405 sq
1	R1	Resistor, Chip, zero ohm , 1/16-W, 1%	0	Std	Std	603
2	R16	Resistor, Chip, 1K Ohms, 1/16-W, 1%	1K	Std	Std	603
	R30	Resistor, Chip, 1K Ohms, 1/16-W, 1%	1K	Std	Std	603
2	R18	Resistor, Chip, 1K-Ohms, 1/16-W, 1%	1K	Std	Std	603
	R26	Resistor, Chip, 1K-Ohms, 1/16-W, 1%	1K	Std	Std	603
4	R8	Resistor, Chip, 10K ohm , 1/16-W, 1%	10K	Std	Std	603

	R9	Resistor, Chip, 10K ohm , 1/16-W, 1%	10K	Std	Std	603
	R10	Resistor, Chip, 10K ohm , 1/16-W, 1%	10K	Std	Std	603
	R11	Resistor, Chip, 10K ohm , 1/16-W, 1%	10K	Std	Std	603
1	R34	Resistor, Chip, 10K Ohms, 1/16-W, 1%	10K	Std	Std	603
2	R20	Resistor, Chip, 12.7K-Ohms, 1/16-W, 1%	12.7K	Std	Std	603
	R21	Resistor, Chip, 12.7K-Ohms, 1/16-W, 1%	12.7K	Std	Std	603
1	R28	Resistor, Chip, 13.3K Ohms, 1/16-W, 1%	13.3K	Std	Std	603
4	R19	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	20K	Std	Std	603
	R23	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	20K	Std	Std	603
	R24	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	20K	Std	Std	603
	R27	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	20K	Std	Std	603
1	R15	Resistor, Chip, 28.0K-Ohms, 1/16-W, 1%	28.0K	Std	Std	603
2	R12	Resistor, Chip, 51.1 Ohms, 1/16-W, 1%	51.1	Std	Std	603
	R33	Resistor, Chip, 51.1 Ohms, 1/16-W, 1%	51.1	Std	Std	603
2	R13	Resistor, Chip, 84.5K Ohms, 1/16-W, 1%	84.5K	Std	Std	603
	R32	Resistor, Chip, 84.5K Ohms, 1/16-W, 1%	84.5K	Std	Std	603
2	R6	Resistor, Chip, 100K ohm , 1/16-W, 1%	100K	Std	Std	603
	R7	Resistor, Chip, 100K ohm , 1/16-W, 1%	100K	Std	Std	603
2	R22	Resistor, Chip, 100K-Ohms, 1/16-W, yy%	100K	Std	Std	603
	R25	Resistor, Chip, 100K-Ohms, 1/16-W, yy%	100K	Std	Std	603
1	R5	Resistor, Chip, 130K ohm , 1/16-W, 1%	130K	Std	Std	603
4	R14	Resistor, Chip, 499 Ohms, 1/16-W, 1%	499	Std	Std	603
	R17	Resistor, Chip, 499 Ohms, 1/16-W, 1%	499	Std	Std	603
	R29	Resistor, Chip, 499 Ohms, 1/16-W, 1%	499	Std	Std	603
	R31	Resistor, Chip, 499 Ohms, 1/16-W, 1%	499	Std	Std	603
1	R3	Resistor, Chip, 825K ohm , 1/16-W, 1%	825K	Std	Std	603
1	R4	Resistor, Chip, open , 1/16-W, 1%	open	Std	Std	603
1	R2	Resistor, Chip, open, 1/16-W, 1%	open	Std	Std	603
1	U2	IC, Dual Channel PWM Controller	TL1451ACNS	TI	TL1451ACNS	NS16
1	U1	IC, High-Efficiency Step -Down Converter	TPS62000DGS	TI	TPS62000DGS	
2	Q3	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	2N7002	Vishay-Liteon	2N7002DICT	SOT23
	Q4	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	2N7002	Vishay-Liteon	2N7002DICT	SOT23
2	Q7	MOSFET, N-ch, 20-V, 6.5-A, 30-milliohm	IRLMS2002	IR	IRLMS2002	Micro6
	Q11	MOSFET, N-ch, 20-V, 6.5-A, 30-milliohm	IRLMS2002	IR	IRLMS2002	Micro6
4	Q6	Bipolar, PNP, 40-V, 200-mA, 300-mW	MMBT3906	On Semi	MMBT3906LT1	SOT23
	Q8	Bipolar, PNP, 40-V, 200-mA, 300-mW	MMBT3906	On Semi	MMBT3906LT1	SOT23
	Q10	Bipolar, PNP, 40-V, 200-mA, 300-mW	MMBT3906	On Semi	MMBT3906LT1	SOT23
	Q12	Bipolar, PNP, 40-V, 200-mA, 300-mW	MMBT3906	On Semi	MMBT3906LT1	SOT23
2	Q5	Bipolar, NPN, 40V, 200mA, zz-W	MMBT3904		MMBT3904	SOT23

2	Q9	Bipolar, NPN, 40V, 200mA, zz-W	MMBT3904	MMBT3904	SOT23
	Q1	MOSFET, P-ch, 20V, 4.5A, 50milliOhms	IRLMS6802	IRLMS6802	Micro6
	Q2	MOSFET, P-ch, 20V, 4.5A, 50milliOhms	IRLMS6802	IRLMS6802	Micro6

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