

<u>Qty</u>	<u>RefDes</u>	<u>Part Number</u>	<u>Value</u>	<u>Description</u>	<u>Mfr</u>	<u>Size</u>
4	C52	GRM188R71H103K	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, X7R, 10%	muRata	603
	C54	GRM188R71H103K	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, X7R, 10%	muRata	603
	C57	GRM188R71H103K	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, X7R, 10%	muRata	603
	C59	GRM188R71H103K	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, X7R, 10%	muRata	603
1	C3	GRM188R71E333K	0.033uF	Capacitor, Ceramic, 0.033uF, 25V, X7R, 10%	muRata	603
1	C5	GRM188R71E473K	0.047uF	Capacitor, Ceramic, 0.047uF, 25V, X7R, 10%	muRata	603
3	C41	GRM188R71E104K	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	muRata	603
	C56	GRM188R71E104K	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	muRata	603
	C58	GRM188R71E104K	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	muRata	603
2	C35	GRM1885C1H100J	10pF	Capacitor, Ceramic, 10pF, 50V, COG, 5%	muRata	603
	C42	GRM1885C1H100J	10pF	Capacitor, Ceramic, 10pF, 50V, COG, 5%	muRata	603
1	C20	GRM1885C1H330J	33pF	Capacitor, Ceramic, 33pF, 50V, COG, 5%	muRata	603
1	C53	GRM1885C1H470J	47pF	Capacitor, Ceramic, 47pF, 50V, COG, 5%	muRata	603
4	C23	GRM1885C1H101J	100pF	Capacitor, Ceramic, 100pF, 50V, COG, 5%	muRata	603
	C25	GRM1885C1H101J	100pF	Capacitor, Ceramic, 100pF, 50V, COG, 5%	muRata	603
	C26	GRM1885C1H101J	100pF	Capacitor, Ceramic, 100pF, 50V, COG, 5%	muRata	603
	C48	GRM1885C1H101J	100pF	Capacitor, Ceramic, 100pF, 50V, COG, 5%	muRata	603
1	C65	GRM1885C1H221J	220pF	Capacitor, Ceramic, 220pF, 50V, COG, 5%	muRata	603
1	C33	GRM1885C1H471J	470pF	Capacitor, Ceramic, 470pF, 50V, COG, 5%	muRata	603
1	C39	GRM1885C1H681J	680pF	Capacitor, Ceramic, 680pF, 50V, COG, 5%	muRata	603
4	C36	GRM188R71H102K	1000pF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	muRata	603
	C44	GRM188R71H102K	1000pF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	muRata	603
	C66	GRM188R71H102K	1000pF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	muRata	603
	C21	GRM188R71H152K	1000pF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	muRata	603
1	C47	GRM188R71H332K	3300pF	Capacitor, Ceramic, 3300pF, 50V, X7R, 10%	muRata	603
1	C40	GRM188R71H472K	4700pF	Capacitor, Ceramic, 4700pF, 50V, X7R, 10%	muRata	603
1	C62	GRM188R71H562K	5600pF	Capacitor, Ceramic, 5600pF, 50V, X7R, 10%	muRata	603
3	C31	GRM219R71C474K	0.47uF	Capacitor, Ceramic, 0.47uF, 16V, X7R, 10%	muRata	805
	C32	GRM219R71C474K	0.47uF	Capacitor, Ceramic, 0.47uF, 16V, X7R, 10%	muRata	805
	C34	GRM219R71C474K	0.47uF	Capacitor, Ceramic, 0.47uF, 16V, X7R, 10%	muRata	805
8	C2	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C17	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C18	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C24	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805

	C51	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C60	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C64	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
	C38	GRM21BR71C105K	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	muRata	805
2	C9	GRM31M5C2D471J	470pF	Capacitor, Ceramic, 470pF, 200V, COG, 5%	muRata	1206
	C10	GRM31M5C2D471J	470pF	Capacitor, Ceramic, 470pF, 200V, COG, 5%	muRata	1206
2	C15	VJ1206A332KXBA	3300pF	Capacitor, Ceramic, 3300pF, 100V, COG, 10%	Vishay	1206
	C16	VJ1206A332KXBA	3300pF	Capacitor, Ceramic, 3300pF, 100V, COG, 10%	Vishay	1206
3	C1	GRM31BR72J103K	0.01uF	Capacitor, Ceramic, 0.01uF, 630V, X7R, 10%	muRata	1206
	C4	GRM31BR72J103K	0.01uF	Capacitor, Ceramic, 0.01uF, 630V, X7R, 10%	muRata	1206
	C22	GRM31BR72J103K	0.01uF	Capacitor, Ceramic, 0.01uF, 630V, X7R, 10%	muRata	1206
2	C19	VJ1210A103KXAA	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, COG, 10%	Vishay	1210
	C27	VJ1210A103KXAA	0.01uF	Capacitor, Ceramic, 0.01uF, 50V, COG, 10%	Vishay	1210
8	C6	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C14	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C29	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C45	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C46	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C55	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C63	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
	C67	GRM32ER61C106K	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 10%	muRata	1210
5	C30	GRM32DR60J226K	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 10%	muRata	1210
	C37	GRM32DR60J226K	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 10%	muRata	1210
	C68	GRM32DR60J226K	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 10%	muRata	1210
	C69	GRM32DR60J226K	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 10%	muRata	1210
	C70	GRM32DR60J226K	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 10%	muRata	1210
2	C7	475K100CB4	4.7uF	Capacitor, MLP, 4.7uF, 100V, 10%	ITW PAKTRON	0.5x0.525
	C8	475K100CB4	4.7uF	Capacitor, MLP, 4.7uF, 100V, 10%	ITW PAKTRON	0.5x0.525
3	C11	10TPB220M	220uF	Capacitor, POSCAP, 220uF, 10V, 20%	Sanyo	7343 (D)
	C12	10TPB220M	220uF	Capacitor, POSCAP, 220uF, 10V, 20%	Sanyo	7343 (D)
	C13	10TPB220M	220uF	Capacitor, POSCAP, 220uF, 10V, 20%	Sanyo	7343 (D)
5	C28	EEFUE0J151R	150uF	Capacitor, 150uF, 6.3V, 15milliohm, 20%	Panasonic	7343 (D)
	C43	EEFUE0J151R	150uF	Capacitor, 150uF, 6.3V, 15milliohm, 20%	Panasonic	7343 (D)
	C49	EEFUE0J151R	150uF	Capacitor, 150uF, 6.3V, 15milliohm, 20%	Panasonic	7343 (D)
	C50	EEFUE0J151R	150uF	Capacitor, 150uF, 6.3V, 15milliohm, 20%	Panasonic	7343 (D)
	C61	EEFUE0J151R	150uF	Capacitor, 150uF, 6.3V, 15milliohm, 20%	Panasonic	7343 (D)
4	R19	Std	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603
	R32	Std	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603
	R28	Std	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603

	R24	Std	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603
1	R2	Std	1M	Resistor, Chip, 1M Ohms, 1/16W, 1%	Std	603
2	R52	Std	2K	Resistor, Chip, 2.00K Ohms, 1/16W, 1%	Std	603
	R37	Std	2K	Resistor, Chip, 2.00K Ohms, 1/16W, 1%	Std	603
1	R42	Std	2.61K	Resistor, Chip, 2.61K Ohms, 1/16W, 1%	Std	603
1	R50	Std	4.22K	Resistor, Chip, 4.22K Ohms, 1/16W, 1%	Std	603
1	R47	Std	5.90K	Resistor, Chip, 5.90K Ohms, 1/16W, 1%	Std	603
1	R48	Std	6.34K	Resistor, Chip, 6.34K Ohms, 1/16W, 1%	Std	603
1	R44	Std	7.68K	Resistor, Chip, 7.68K Ohms, 1/16W, 1%	Std	603
1	R3	Std	8.87K	Resistor, Chip, 8.87K Ohms, 1/16W, 1%	Std	603
1	R22	Std	9.09K	Resistor, Chip, 9.09K Ohms, 1/16W, 1%	Std	603
4	R21	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
	R23	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
	R5	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
	R6	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
1	R36	Std	18.7K	Resistor, Chip, 18.7K Ohms, 1/16W, 1%	Std	603
5	R26	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
	R45	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
	R53	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
	R4	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
	R18	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
1	R30	Std	35.7K	Resistor, Chip, 35.7K Ohms, 1/16W, 1%	Std	603
1	R51	Std	39.2K	Resistor, Chip, 39.2K Ohms, 1/16W, 1%	Std	603
2	R43	Std	57.6K	Resistor, Chip, 57.6K Ohms, 1/16W, 1%	Std	603
	R27	Std	57.6K	Resistor, Chip, 57.6K Ohms, 1/16W, 1%	Std	603
1	R38	Std	60.4K	Resistor, Chip, 60.4K Ohms, 1/16W, 1%	Std	603
1	R20	Std	49.9K	Resistor, Chip, 49.9K Ohms, 1/16W, 1%	Std	603
3	R41	Std	100K	Resistor, Chip, 100K Ohms, 1/16W, 1%	Std	603
	R34	Std	100K	Resistor, Chip, 100K Ohms, 1/16W, 1%	Std	603
	R35	Std	100K	Resistor, Chip, 100K Ohms, 1/16W, 1%	Std	603
1	R33	Std	127K	Resistor, Chip, 127K Ohms, 1/16W, 1%	Std	603
1	R40	Std	374K	Resistor, Chip, 374K Ohms, 1/16W, 1%	Std	603
1	R39	ERJ6RQFR27	0.27	Resistor, Chip, 0.27 Ohms, 1/10W, 1%	Panasonic	805
1	R31	ERJ6RQF2R7	2.7	Resistor, Chip, 2.7 Ohms, 1/10W, 1%	Panasonic	805
4	R16	Std	4.7	Resistor, Chip, 4.7 Ohms, 1/10W, 5%	Std	805
	R17	Std	4.7	Resistor, Chip, 4.7 Ohms, 1/10W, 5%	Std	805
	R54	Std	4.7	Resistor, Chip, 4.7 Ohms, 1/10W, 5%	Std	805
	R55	Std	4.7	Resistor, Chip, 4.7 Ohms, 1/10W, 5%	Std	805
2	R46	Std	10	Resistor, Chip, 10 Ohms, 1/10W, 5%	Std	805

	R49	Std	10	Resistor, Chip, 10 Ohms, 1/10W, 5%	Std	805
1	R7	Std	56.2K	Resistor, Chip, 56.2K Ohms, 1/8W, 1%	Std	1206
1	R15	Std	11.3K	Resistor, Chip, 11.3K Ohms, 1/2W, 1%	Std	2010
1	R8	Std	0.01	Resistor, Chip, 0.01 Ohms, 1W, 1%	Std	2512
1	R1	Std	10K	Resistor, Chip, 10.0K Ohms, 1W, 1%	Std	2512
4	R13	Std	15	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
	R14	Std	15	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
	R25	Std	15	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
	R29	Std	15	Resistor, Chip, 15 Ohms, 1W, 5%	Std	2512
4	R9	Std	100	Resistor, Chip, 100 Ohms, 1W, 5%	Std	2512
	R10	Std	100	Resistor, Chip, 100 Ohms, 1W, 5%	Std	2512
	R11	Std	100	Resistor, Chip, 100 Ohms, 1W, 5%	Std	2512
	R12	Std	100	Resistor, Chip, 100 Ohms, 1W, 5%	Std	2512
3	J1	ED1514		Terminal Block, 2-pin, 6A, 3.5mm	OST	0.27 x 0.25
	J2	ED1514		Terminal Block, 2-pin, 6A, 3.5mm	OST	0.27 x 0.25
	J5	ED1514		Terminal Block, 2-pin, 6A, 3.5mm	OST	0.27 x 0.25
1	J3	ED1516		Terminal Block, 4-pin, 6A, 3.5mm	OST	0.55 x 0.25
1	J4	ED1609		Terminal Block, 2-pin, 15A, 5.1mm	OST	0.40 x 0.35
7	Q9	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q10	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q11	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q12	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q13	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q14	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
	Q15	IRF7811W		MOSFET, N-ch, 30V, 11A, 10milliohm	IR	SO-8
1	Q7	IRLMS1902		MOSFET, N-ch, 20V, 3.2A, 100-milliohm	IR	Micro6
2	Q6	IRF5800		MOSFET, P-ch, -30V, 4A, 85milliohm	IR	Micro6
	Q8	IRF5800		MOSFET, P-ch, -30V, 4A, 85milliohm	IR	Micro6
1	Q2	IRFS41N15D		MOSFET, N-ch, 150V, 41A, 45milliOhms	IR	D2PAK
2	Q3	IRFS31N20D		MOSFET, N-ch, 200V, 31A, 85milliOhms	IR	D2PAK
	Q4	IRFS31N20D		MOSFET, N-ch, 200V, 31A, 85milliOhms	IR	D2PAK
1	Q1	MMBT3904		Bipolar, NPN, 40V, 200mA	On Semi	SOT-23
1	Q5	MMBT2907ALT1		Bipolar, PNP, -60V, 600mA, 225mW	On Semi	SOT-23
1	D1	MMSZ5257BT1		Diode, Zener, 500mW, 33V	On Semi	SOD-123
3	D2	MURS120T3		Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
	D3	MURS120T3		Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
	D9	MURS120T3		Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
2	D6	48CTQ060S		Diode, Dual Schottky, 60V, 40A	IR	D2PAK
	D7	48CTQ060S		Diode, Dual Schottky, 60V, 40A	IR	D2PAK

6	D14	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
	D15	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
	D12	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
	D13	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
	D10	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
	D11	MBR0530		Diode, Schottky, 500mA, 30V	On Semi	SOD-123
1	T1	P8203T		Transformer, Current Sense, 6 A, 100Khz, 180uH	Pulse	0.330 x 0.360
1	T2	G013399, Rev 2		Tansformer, Push-Pull, 2 pri, 4 sec., 96W	GCI	1.25x1.25
1	L1	SDS0402T-152M-S	1.5mH	Inductor, SMT, 1.5MH, 120mA, 4.2ohm	GCI	6.6x4.5mm
1	L7	DR127-3R3	3.3uH	Inductor, SMT, 3.3uH, 10.5A, 5.67milliohm	Coiltronics	12x12mm
1	L6	HC2-2R2	2.2uH	Inductor, SMT, 2.2uH, 24.3A, 2.3milliohm	Coiltronics	19x19.2mm
1	L2	HC2-4R7	4.7uH	Inductor, SMT, 4.7uH, 17A, 4.6milliohm	Coiltronics	19x19.2mm
1	L5	UP1B-150	15uH	Inductor, SMT, 15uH, 1.2A, 17milliohm	Coiltronics	0.35x0.24
1	L3	UP2B-100	10uH	Inductor, SMT, 10uH, 3.3A, 26.7milliohm	Coiltronics	10.4x13.8mm
1	L4	UP2B-220	22uH	Inductor, SMT, 22uH, 2A, 61.7milliohm	Coiltronics	0.55x0.41
1	U2	MOC206		IC, Optocoupler	Fairchild	SO-8
1	U5	TL431ACD		IC, Precision Adjustable Shunt Reference, 0.4%	Texas Instruments	SO-8
1	U3	TPS2812D		IC, MOSFET Driver, Dual Channel Buffer	Texas Instruments	SO-8
1	U8	TPS5120DBT		IC, Dual Adjustable Controller for Notebooks	Texas Instruments	TSSOP-30
1	U6	TPS43000PW		IC, Multi-topology High Frequency, PWM Controller	Texas Instruments	TSSOP-16
1	U7	UC3572D		IC, Negative-output Flyback controller, 2%	Texas Instruments	SO-8
1	U4	UCC3808AD-1		IC, Low Power Current Mode Push Pull PWM	Texas Instruments	SO-8
1	U1	UCC3913D		IC, Negative-voltage Hot-swap Power Manager	Texas Instruments	SO-8

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