

SD303 / SD307 Bill of Materials

Reference Designator	Description	Manufacturer	Manufacturer Part No.	Quantity
C1, C2	1uF Capacitor Ceramic 10V, 20%, X5R, 0402	Panasonic	ECJ-0EB1A105M	2
C3, C4, C5, C6, C10, C11, C14, C24, C26, C28, C30, C31	4.7uF Capacitor Ceramic 6.3V, 20%, X5R, 0603	Panasonic	ECJ-1VB0J475M	12
C7, C25, C27, C29	100pF Capacitor Ceramic 50V, 5%, X5R, 0603	Panasonic	ECJ-1VC1H101J	4
C8	0.1uF Capacitor Ceramic 50V, 10%, X7R, 0603	Panasonic	ECJ-1VB1H104K	1
C9	10uF Capacitor Ceramic 6.3V, 20%, X5R, 0603	Panasonic	ECJ-1VB0J106M	1
C12	0.033uF Capacitor Ceramic 50V, 10%, X7R, 0603	Panasonic	ECJ-1VB1H333K	1
C13, C15, C20, C21, C22, C23	1uF Capacitor Ceramic 16V, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	6
C16, C17	18pF Capacitor Ceramic 50V, 5%, X5R, 0603	Panasonic	ECJ-1VC1H180J	2
C18, C19	220nF Capacitor Ceramic 10V, 10%, X5R, 0603	Panasonic	ECJ-1VB1A224K	2
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11	BiColored LED (Green, Red)	LITE-ON	LTST-C155KGJRKT	11
D13	Bidirectional ESD Transient Suppressor, SOT23-6	COMCHIP	CEBS0624V-G	1
D14	DIODE SCHOTTKY ARRAY 40V SOT363	Diodes Inc	BAS40DW-05-7-F	1
J1, J2	SMA Connector (Edge Launch)	Johnson Components	142-0701-851	2
J3, J4, J5, J6	75 ohm BNC (Edge Launch)	Trompeter	UCBJE20-1	4
J7	USB Mini-B Recept, R/A, 5POS	Molex	54819-0572	1
J8	Binding Post (Banana Jack) Red	Emerson	111-0702-001	1
J9	Binding Post (Banana Jack) Black	Emerson	111-0703-001	1
JP1	Header, 10-Pin, Dual row	Tyco Electronics Amp	87215-7	1
JP2	7x2 Header 0.100" spacing	Tyco Electronics/Amps	87215-4	1
L1, L2, L3, L4	6.8nH Inductor 0402	Murata	LQP15MN6N8B02D	4
Q1	MOSFET P-CH 12V 4.3A SOT-23	International Rectifier	IRLML6401TRPBF	1
R1, R2, R3, R4, R5, R6, R7, R8	75 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF75R0	8
R9, R10	OPEN - Do Not Stuff, 49.9 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF49R9	2
R11	750 ohm Resistor 1%, 1/16W, 0402	Vishay	CRCW0402750RFKED	1
R12, R13, R14, R15, R32, R33, R34, R35, R36, R37	10k ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ103	10
R16, R18, R20, R22, R24, R40, R42, R44, R46, R48	300 ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ301	10
R17, R19, R21, R23, R25, R39, R41, R43, R45, R47, R49	270 ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ271	11
R26, R27	22 ohm Resistor 5%, 1/10W, 0603	ROHM	MCR03EZPJ220	2
R28	100 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF1000	1
R29, R31	16.5k ohm Resistor 1% 0.1W, 0603	ROHM	MCR03EZPFX1652	2
R30	36.5k ohm Resistor SMD 1%, 0.1W, 0603	ROHM	MCR03EZPFX1652	1
R38	300 ohm Resistor SMD 1%, 1/16W, 0402	ROHM	MCR01MZPF3000	1
R50	52.3k ohm Resistor SMD 1%, 0.1W, 0603	ROHM	MCR03EZPFX5232	1
R51	2.74k ohm Resistor 0603 1%, 0.1W, 0603	ROHM	MCR03EZPFX2741	1
R52	100k ohm Resistor 5%, 1/10W, 0603	ROHM	MCR03EZPJ104	1
S1, S2, S3, S4, S5, S6	SWITCH TACT SPST W/GND SMD	Omron Electronics Inc-ECB Div	B3U-1100P	6
U1	AVR 8-bit Microcontroller 128K 64QFN	Atmel	AT90USB1287-16MU	1
U2	Regulator LDO 300MA 3.3V 8MSOP	National Semiconductor	LP3981IMM-3.3/NOPB	1
U3	LMH0303 or LMH0307, LLP16	National Semiconductor	LMH0303SQ or LMH0307SQ	1
X1	CRYSTAL 16.000MHZ 18PF FUND SMD	Abracon	ABM3-16.000MHZ-B2-T	1