

SD307 Bill of Materials

Reference Designator	Qty	Description	Manufacturer	Manufacturer Part No.	Distributor	Distributor Part No.
C1, C2	2	1uF Capacitor Ceramic 10V, 20%, X5R, 0402	Panasonic	ECJ-0EB1A105M	Digi-Key	PCC2364CT-ND
C3, C4, C5, C6, C10, C11, C14, C24, C26, C28	10	4.7uF Capacitor Ceramic 6.3V, 20%, X5R, 0603	Panasonic	ECJ-1VB0J475M	Digi-Key	PCC2318TR-ND
C7, C25, C27, C29	4	100pF Capacitor Ceramic 50V, 5%, C0G, 0603	Panasonic	ECJ-1VC1H101J	Digi-Key	PCC101ACVCT-ND
C8, C30, C31	3	0.1uF Capacitor Ceramic 50V, 10%, X7R, 0603	Panasonic	ECJ-1VB1H104K	Digi-Key	PCC2398CT-ND
C9	1	10uF Capacitor Ceramic 6.3V, 20%, X5R, 0603	Panasonic	ECJ-1VB0J106M	Digi-Key	PCC2395CT-ND
C12	1	0.033uF Capacitor Ceramic 50V, 10%, X7R, 0603	Panasonic	ECJ-1VB1H333K	Digi-Key	PCC2284CT-ND
C13, C15, C20, C21, C22, C23	6	1uF Capacitor Ceramic 16V, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	Digi-Key	PCC2224CT-ND
C16, C17	2	12pF Capacitor Ceramic 50V, 5%, C0G, 0603	Panasonic	ECJ-1VC1H120J	Digi-Key	PCC120ACVCT-ND
C18, C19	2	220nF Capacitor Ceramic 10V, 10%, X5R, 0603	Panasonic	ECJ-1VB1A224K	Digi-Key	PCC1749CT-ND
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11	11	BiColored LED (Green, Red)	LITE-ON	LTST-C155KGJRK	Digi-Key	160-1409-1-ND
D13	1	Bidirectional ESD Transient Suppressor, SOT23-6	COMCHIP	CEBS0624V-G	Digi-Key	641-1087-1-ND
D14	1	Diode Schottkey Array, 40V, SOT363	Diodes Inc	BAS40DW-05-7-F	Digi-Key	BAS40DW-05-FDICT-ND
J1, J2	2	SMA Connector (Edge Launch)	Johnson Components	142-0701-851	Digi-Key	J658-ND
J3, J4, J5, J6	4	75 ohm BNC (Edge Launch)	Trompeter	UCBJE20-1		
J7	1	USB Mini-B Recept, R/A, 5POS	Molex	54819-0572	Digi-Key	WM17116TR-ND
J8	1	Binding Post (Banana Jack) Red	Emerson	111-0702-001	Digi-Key	111-0702-001-ND
J9	1	Binding Post (Banana Jack) Black	Emerson	111-0703-001	Digi-Key	111-0703-001-ND
JP1	1	10x2 Header, 0.100" spacing	Tyco Electronics	87215-7	Digi-Key	A26580 - ND
JP2	1	7x2 Header, 0.100" spacing	Tyco Electronics	87215-4	Digi-Key	A26576-ND
L1, L2, L3, L4	4	6.8nH Inductor, 0402	Murata	LQP15MN6N8B02D	Digi-Key	490-1134-1-ND
Q1	1	MOSFET, P-Ch, 12V, 4.3A, SOT-23	International Rectifier	IRLML6401TRPBF	Digi-Key	IRLML6401PBFCT-ND
R1, R2, R3, R4, R5, R6, R7, R8	8	75 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF75R0	Digi-Key	RHM75.0LCT-ND
R11	1	750 ohm Resistor 1%, 1/16W, 0402	Vishay	CRCW0402750RFKED	Digi-Key	541-750LCT-ND
R12, R13, R14, R15, R32, R33, R34, R35, R36, R37	10	10k ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ103	Digi-Key	RHM10KGCT-ND
R16, R18, R20, R22, R24, R40, R42, R44, R46, R48	10	300 ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ301	Digi-Key	RHM300GCT-ND
R17, R19, R21, R23, R25, R39, R41, R43, R45, R47, R49	11	270 ohm Resistor 5%, 0.1W, 0603	ROHM	MCR03EZPJ271	Digi-Key	RHM270GCT-ND
R26, R27	2	22 ohm Resistor 5%, 1/10W, 0603	ROHM	MCR03EZPJ220	Digi-Key	RHM22GCT-ND
R28	1	100 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF1000	Digi-Key	RHM100LCT-ND
R29, R31	2	16.5k ohm Resistor 1% 0.1W, 0603	ROHM	MCR03EZPFX1652	Digi-Key	RHM16.5KHCT-ND
R30	1	36.5k ohm Resistor SMD 1%, 0.1W, 0603	ROHM	MCR03EZPFX3652	Digi-Key	RHM36.5KHCT-ND
R38	1	300 ohm Resistor SMD 1%, 1/16W, 0402	ROHM	MCR01MZPF3000	Digi-Key	RHM300LCT-ND
R50	1	52.3k ohm Resistor SMD 1%, 0.1W, 0603	ROHM	MCR03EZPFX5232	Digi-Key	RHM52.3KHTR-ND
R51	1	2.74k ohm Resistor 0603 1%, 0.1W, 0603	ROHM	MCR03EZPFX2741	Digi-Key	RHM2.74KHTR-ND
R52	1	100k ohm Resistor 5%, 1/10W, 0603	ROHM	MCR03EZPJ104	Digi-Key	RHM100KGCT-ND
S1, S2, S3, S4, S5, S6	6	Switch, Tactile, SPST w/GND, SMD	Omron Electronics Inc-ECB Div	B3U-1100P	Digi-Key	SW1021TR-ND
U1	1	AVR 8-bit Microcontroller, 128K, 64QFN	Atmel	AT90USB1287-16MU	Digi-Key	AT90USB1287-16MU-ND
U2	1	Regulator, LDO, 300mA, 3.3V, 8MSOP	National Semiconductor	LP3981IMM-3.3/NOPB		
U3	1	LMH0307 3G SDI Dual Cable Driver, LLP16	National Semiconductor	LMH0307SQ		
X1	1	Crystal, 8.00 MHz , 8 pF, Fund, SMD	NDK	NX5032GA 8MHZ AT-W	Digi-Key	644-1132-1-ND
	1	Jumper Shunt, 10 position (10x2 shunt), 0.100" spacing	Samtec	MNT-110-BK-G		
	4	Standoff, 4-40 Thread, 0.750" Length	Keystone Electronics	2204	Digi-Key	2204K-ND
	4	Screw, 4-40 Thread, 0.375" Length	B&F Fastener Supply	PMSSS 440 0038 PH	Digi-Key	H782-ND

Not Placed Components

R9, R10	2	OPEN - Do Not Stuff, 49.9 ohm Resistor 1%, 1/16W, 0402	ROHM	MCR01MZPF49R9	Digi-Key	RHM49.9LCT-ND
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