

Daughter Card

Part Reference	Description	Manufacturer 1	Mfg 1 Part Number
C1,C2	0.1uF ±10% 100V X7R 0805 Ceramic Chip Capacitor	Taiyo Yuden	HMK212B7104KG-T
C3	10uF ±10% 16V X5R 0805 Ceramic Chip Capacitor	Murata	GRM21BR61C106KE15L
J1	13x1 100mil SMT Termination Type Header THR	Sullins	GEC135BSN-M89
J2	Modular Connector 6 Position R/A SMT	Molex	44144-0005
U1	3.3V Low Power 30Mbps RS485/RS422 Transceiver SO8	Intersil	ISL43485IBZ-T
Part Reference	Description	Manufacturer 1	Mfg 1 Part Number
C1,C2,C3,C10,C11,C12,C17,C35,C60,C66,C68	0.1uF 10V 10% X5R 0402 Ceramic SMD	Kemet	C0402C104K8PACTU
C48,C56	0.1uF 100V 10% X7R 0805 Ceramic SMD	Kemet Taiyo Yuden	C0805C104K1RACTU HMK212B7104KG-T
C50,C51	1.0uF 6.3V 20% X5R 0402 Ceramic SMD	Murata Panasonic	GRM135R60J105KE19D ECJ-0EB0J105M
C4,C7,C54,C55	0.01uF 16V 10% X7R 0402 Ceramic SMD	Kemet	C0402C103K3RACTU
C5,C6,C15,C16	18pF 50V 5% COG 0402 Ceramic SMD	Kemet	C0402C180J5GACTU
C8,C9,C13,C18,C19,C20,C47	68pF 50V 5% COG 0402 Ceramic SMD	Kemet	C0402C680J5GAC
C14,C41,C42,C43,C52,C53,C57	10uF 6.3V 10% X5R 0805 Ceramic SMD	Panasonic AVX	ECJ-2FB0J106K 08056D106KAT2A
C25,C26,C27,C29,C30,C32,C33,C34,C36,C37,C38	8.2pF 50V ±0.25pF NP0 0402 Ceramic SMD	AVX Murata	04025A8R2CAT2A GRM1555C1H8R2CZ01D
C24	5.6pF 50V ±0.25pF COG 0402 Ceramic SMD	Murata AVX	GRM1555C1H5R6DZ01D 04025A5R6CAT2A
C28,C31	2.2pF 50V 0.25pF COG 0402 Ceramic SMD	YAGEO	CC0402CRNPO9BN2R2
C21,C23,C39	1.0pF 50V 0.25pF COG 0402 HFLCC SMD	Murata	GJM1555C1H1R0CB01D
C40	1.8pF 50V 0.25pF COG 0402 Ceramic SMD	Murata	GJM1555C1H1R8CB01D
C44,C45	4.7uF 6.3V 20% X5R 0603 Ceramic SMD	Panasonic	ECJ-1VB0J475M
C49,C58,C59,C61,C63,C64,C65,C71	10uF 35V +80-20% Y5V 1206 Ceramic SMD	Taiyo Yuden	GMK316F106ZL-T
C73	220uF 35V 20% Elect 8mmDx11.5mmT Rad TH	Panasonic	ECA-1VM221BJ
D5,D1	MMBD1505A, 200mA 200V Dual Low Leakage Diodes (SMD) Common Anode	Fairchild	MMBD1505A
D7	1A 20V Schottky Rectifier Diode (SMD)	On Semi MICRO SEMI	MBRM120L TG UPS120ETR13
D2	MMBD1504A, 200mA 200V Dual Low Leakage Diodes (SMD) Common Cathode	Fairchild	MMBD1504A
J11	TH Header 5MM Pitch 6 Position	Ria Connect	31046106
LED1,LED2	Bi-color LED (green/red) in 0603-size SMD package	Agilent	HSMF-C165
L1	3.3uH 30mA 10% 0805 monolithic SMD	Murata	LQM21NN3R3K10L
L2,L4	7.5nH 5% 0402 HF Multilayer Chip Inductor	Murata	LQG15HS7N5J02D
L3	5.6nH 5% 0402 HF Multilayer Chip Inductor	Murata	LQG15HS5N6S02D
L5,L10	10nH 5% 0402 HF Multilayer Chip Inductor	Murata	LQG15HS10NJO2D
L6	3.6nH 5% 0402 HF Multilayer Chip Inductor	Murata	HK10053N6S-T
L7	HF Monolithic Chip Inductor, 2.7nH ±0.3nH LQG (SMD)	Murata	LQG15HS2N7S02D
L8	1.8uH 50mA 10% 0805 SMD	Murata	LQM21NN1R8K10D
L9	68uH 220mA 10% 1812 Chip Coil SMD	Murata	LQH43CN680K03L
L11,L13	4.7nH 0.1nH 0402 HF Film Chip Inductor	Murata	LQP15MN4N7B02D
L12,L14	1.8nH 0.1nH 0402 HF Film Chip Inductor	Murata	LQP15MN1N8B02D
Q1,Q2	NPN Silicon RF Transistor	Infineon Technologies	BFP420E6327
Q3	NPN General Purpose Amplifier	Diodes Inc.	MMBT2222A-7-F
Q4,Q6,Q7,Q9,Q10	1.25V, 1.8V (G-S), P-Channel MOSFET	Fairchild	FDN306P
R1,R31,R35,R39,R40,R41,R48	1.0M ohm 5% 1/16W 0402 Chip Resistor	KOA	RK73B1ETTP105J
R3	2.0 ohm 5% 1/16W 0402 Chip Resistor	KOA	RK73B1ETTP2R0J
R4	43.2k ohm 1% 1/16W 0402 Chip Resistor	Dale	CRCW04024322FKEA
R23,R24,R46,R47,R53	1.0k ohm 5% 1/8W 0805 Chip Resistor	Dale	CRCW08051K00JNEA
R6	22.0 ohm 1% 1/16W 0402 Chip Resistor	Yageo	RC0402FR-0722RL
R7,R37	150 ohm 1% 1/16W 0402 Chip Resistor	Panasonic	ERJ-2RKF1500X
R12,R13,R14,R36	68 ohm 5% 1/16W 0402 Chip Resistor	Panasonic	ERJ2GEJ680X
R5,R8,R42	6.81k ohm 1% 1/16W 0402 Chip Resistor	KOA	RK73H1ETTP6811F
R10	24.9k ohm 1% 1/16W 0402 Chip Resistor	Dale KOA	CRCW04022492FKEA RK73H1ETTP2492F
R11,R20,R21,R28,R29,R34,R25,R59	10.0k ohm 1% 1/16W 0402 Chip Resistor	Dale KOA	CRCW04021002FKEA RK73H1ETTP1002
R15,R17,R38,R56	0 ohm 0402 Chip Jumper	Rohm	MCR01MZSJ000
R45,R57,R58,R60	0 ohm 0805 Chip Jumper	Dale	CRCW08050000Z0EA
R22	10k ohm 5% 0805 NTC Thermistor	Murata	NCP21XV103J03RA
R26,R33,R44	340k ohm 1% 1/16W 0402 Chip Resistor	KOA	RK73H1ETTP3403F
R30	4.32k ohm 1% 1/16W 0402 Chip Resistor	Panasonic	ERJ2RKF4321X
R54	1.0k ohm 5% 1/16W 0402 Chip Resistor	Yageo Rohm	RC0402JR-071KL MCR001MZPJ102
R27	1 ohm 5% 1/16W 0402 Chip Resistor	Yageo	RC0402JR-071RL
SW4	Switch,Tactile, 6mm, Height 4.3mm, 160g, No Ground, SMD	C&K Components	PTS645SM43SMTR LFS
SW2	Switch Reed MAG Plastic SMT	Coto Technology	CT10-1540-G1
U1	1Mb SPI DataFlash SO8	Atmel	AT45DB011D-SH-B
U2	Atmega128L 8-bit microcontroller (128K programmable flash)	Atmel	ATMEGA128L-8MU
U3	2.4GHz IEEE 802.15.4/ZigBee-ready RF Transceiver CC2420	Ember	EM2420/TR
U4,U6	GaAs MMIC for L, S-band SPDT	NEC	UPG2214TB-A
U5	NC7WZ04, UHS Dual Inverter (w/ TinyLogic)	Fairchild	NC7WZ04P6X
U8	1.5A Inverting Switching Regulator	On Semi	MC34063ADR2G
U9	3.3V Regulated, Low-ripple Charge Pump	Texas Instruments	TPS60213DG5
U12	Reset Monitor 2.63V SC70	On Semi	MAX803SQ263T1G
Y1	32.768KHz 12.5P 20PPM SMD Crystal	Citizen	CMR200T-32.768KDFUT
Y2	8.000MHz 18P 20PPM SMD Crystal	Murata	CSTCE8M00G55-RO
Y3	16.000MHz 18P 20PPM SMD Crystal	MMD	I18PC1-16.000MHZT
Z1	TVS_Bidirectional_5V_SOT23_6	Comchip Technology Corporation	CEBS065V0-G
Z2	TVS_Bidirectional_36V_SMB	On Semi	1SMB36CAT3G