

Description	Qty	Reference Designator	MFG	MFG P/N	Notes
CAP 0.1uF ±10% 16V X7R 0402i	1	C1	KEMET	NP-C0402C104K4RAC	DO NOT POPULATE
CAP 1uF ±10% 10V X7R 0402i	1	C2	MURATA	GRM155Z71A105KE01J	
CAP 0.1uF ±10% 16V X7R 0402i	2	C3 C10	KEMET	C0402C104K4RAC	
CAP 15pF ±10% 50V C0G 0402i	4	C4 C5 C6 C7	KEMET	C0402C150K5GACTU	
CAP 39pF ±5% 50V C0G 0402i	2	C8 C9	KEMET	C0402C390J5GACTU	
CON 30X2 ST ML 0.8MM PLY PAD GLD SM	2	J1 J2	SAMTEC	ERM8-030-05.0-S-DV-K-TR	
SHUNT 2PIN CLSD TOP GRIP FML BLK	2	LNK-P1 LNK-P2	HARWIN	M7686-05	Fit to REF DES: Pin1-Pin3
CON RCPT 0.41-0.53mm 2.54mm PF	2	M1 M2	TE CONNECTIVITY	2-1437514-0	
HDR 2X2 ST ML 2.54MM 2.54MM TL GLD TH	3	P1 P2 P6	SAMTEC	TSW-102-07-G-D	
HDR 2X2 ST ML 2.54MM 2.54MM TL GLD TH	1	P4	SAMTEC	NP-TSW-102-07-G-D	DO NOT POPULATE
HDR 3X2 ST ML 2.54MM 2.54MM TL GLD TH	1	P5	SAMTEC	TSW-103-07-G-D	
HDR 2X1 ST ML 2.54MM 2.54MM TL GLD TH	1	P7	SAMTEC	TSW-102-07-G-S	
RES 0 OHM 1/16W JUMPER 0402i THICK	3	R3 R4 R13	DALE	CRCW04020000Z0ED	
RES 0 OHM 1/16W JUMPER 0402i THICK	5	R5 R6 R7 R8 R9	DALE	NP-CRCW04020000Z0ED	DO NOT POPULATE
RES 10K OHM 1/16W ±1% 0402i THICK	1	R10	VISHAY	CRCW040210K0FKEA	
RES 4.7K OHM 1/16W ±1% 0402i THICK	1	R11	DALE	NP-CRCW04024K70FKED	DO NOT POPULATE
RES 4.7K OHM 1/16W ±1% 0402i THICK	1	R12	DALE	CRCW04024K70FKED	
IC CRS NOLAN TSMC 55LP TSSOP10	1	U1	CIRRUS LOGIC	CS2501-CZ	
IC EEPROM 512KB 400KHz I2C UDFN8	1	U2	MICROCHIP TECHNOLOGY	AT24C512C-MAHM-E	
XTL 12.000MHz 8pF 15ppm SMD4	1	Y1	NDK	NX3225SA-12.000M-STD-CRS-2	
XTL 12.0000MHZ 18PF 10PPM TH2	1	Y2	ECS	ECS-120-18-4X-CKM	Socketed
XTL 12.0000MHz 8pF 15ppm SMD4	1	Y3	ECS	ECS-120-8-33Q-RES-TR	
PCB	1	ZZ1	CIRRUS LOGIC	240-11641/A0	

C2, C3, C4, C5 and Y1 (or any other X-tal) are required external components for CS2501.

Other external components mentioned in BoM above are not required for production PCB with CS2501.