

Variant: 001
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BSR181A REV A1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		BSR181A	Any	Printed Circuit Board	
2	C1, C9, C10, C11	4	2.2uF	CGA4J3X7R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
3	C2	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
4	C3	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
5	C4	1	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
6	C5	1	22uF	CGA8P1X7R1E226M250KC	TDK	CAP, CERM, 22 uF, 25 V, +/- 20%, X7R, AEC-Q200 Grade 1,	
7	C6	1	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C7	1	22pF	GRM1885C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	C8	1	47uF	EMVY500ADA470MF80G	Chem-Con	CAP, AL, 47 uF, 50 V, +/- 20%, 0.6 ohm, SMD	F80
10	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
11	JP1	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
12	L1	1	15uH	74437349150	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 15 uH, 2.75 A, 0.092 ohm, SMD	7.30x4.80x6.60mm
13	L3	1	1uH	DFE201612E-1R0M=P2	MuRata	Inductor, Shielded, Metal Composite, 1 uH, 2.9 A, 0.048 ohm, SMD	2x1.6mm
14	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
15	R1	1	402k	CRCW0603402KFKEA	Vishay-Dale	RES, 402 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
16	R2	1	133k	CRCW0603133KFKEA	Vishay-Dale	RES, 133 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
17	R3	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
18	R4	1	70.6k	RT0603BRD0770K6L	Yageo America	RES, 70.6 k, 0.1%, 0.1 W, 0603	0603
19	R5	1	22.1k	RC0603FR-0722K1L	Yageo	RES, 22.1 k, 1%, 0.1 W, 0603	0603
20	SH-J1	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
21	TP1, TP2, TP3, TP4, TP5	5		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
22	TP6	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
23	TP7, TP8	2		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
24	TP9	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
25	U1	1		LMR54410DBVR	Texas Instruments	Buck Converter, Adjustable, 4V-36V Input, 1-28V 1A Output, SOT23-6	SOT23-6