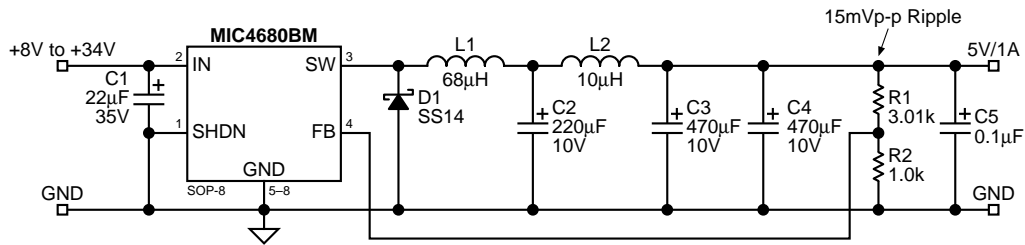


### Circuit Performance

- Low noise (< 15mV)
- Simple low-noise solution
- Low-cost



### Bill of Material

Reference	Part Number	Manufacturer	Description	Qty
C1	TPSE226035R0200	AVX	22µF 35V, tantalum	1
C2	TPSD227010R0150	AVX	220µF 10V, tantalum, ESR 150mΩ	1
C3, C4	TPSE477010R0050	AVX	470µF 10V, tantalum, ESR 50mΩ	2
C5	08055C104KAT1A	AVX	0.1µF 50V, ceramic	1
D1	B140 SS14	Vishay-Diode, Inc. (Note 1) GI	1A 40V, Schottky diode	1
L1	UP2B-680MC	Coiltronics	68µH, inductor, I <sub>SAT</sub> = 1.5A	1
L2	UP1B-100	Coiltronics	10µH, inductor, I <sub>SAT</sub> = 1.9A	1
R1	CRCW08053011FRT1	Vishay-Dale (Note 2)	3.01k 1/10W ±1%, size 0805	1
R2	CRCW08051001FRT1	Vishay-Dale (Note 2)	1.0k 1/10W ±1%, size 0805	1
U1	<b>MIC4680BM</b>	Micrel Semiconductor	1A 200kHz power-SO-8 buck regulator	1

**Note 1:** Vishay-Diode, Inc. (805) 446-4800

**Note 2:** Vishay-Dale (402) 371-0080

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