

Bill of Materials

Item	Parts	Q'ty	Value	Part name	Manufacturer	Description	Package Name	Standard dimensions mm (inch)	Mounting
1	U1	1	-	TC75S67TU	TOSHIBA	Operational amplifier	SOT-353F	2.0×2.1×0.7	
2	C1, C13	2	1800 pF			Ceramic 50 V, ±10 %		1.0×0.5 (0402)	
3	C4	1	10 nF			Ceramic 25 V, ±10 %		1.0×0.5 (0402)	
4	C5	1	100 nF			Ceramic 16 V, ±10 %		1.0×0.5 (0402)	
5	C12, C14	2	10 μF			Ceramic 25 V, ±10 %		2.0×1.2 (0805)	
6	R1, R13	2	20 kΩ			100 mW, ±1 %		1.0×0.5 (0402)	
7	R9	1	0 Ω			1 A		1.0×0.5 (0402)	
8	R10	1	100 mΩ	RL73H3A R10FTE	TE connectivity	Shunt resistor 1 W, ±1 %		6.4×3.2 (2512)	
9	R11, R12	2	1 kΩ			100 mW, ±1 %		1.0×0.5 (0402)	
10	R14	1	100 Ω			100 mW, ±1 %		1.0×0.5 (0402)	
11	R15	1	2.4 kΩ			100 mW, ±1 %		1.0×0.5 (0402)	
12	R16	1						1.0×0.5 (0402)	Not mounted Dummy load
13	CN2	1	-	110990030	Seed Studio	Grove connector 4 pins/straight		10×5.1×8.1	

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