



# Bill of Materials

## TI DESIGNS

TIPD175:  $\pm 1$ A Single-Supply Low-Side Current Sensing Solution Reference Design

Quantity	Designator	Value	Description	Manufacturer	Manufacturer Part Number	DigiKeyPartNumber
1	VCC	Red	Test Point, TH, Compact, Red	Keystone	5005	5005K-ND
3	GND	Black	Test Point, TH, Compact, Black	Keystone	5006	5006K-ND
1	Vout	White	Test Point, Compact, White, TH	Keystone	5007	5007K-ND
1	Vref	Orange	Test Point, Compact, Orange, TH	Keystone	5008	5008K-ND
1	Iin	Yellow	Test Point, Compact, Yellow, TH	Keystone	5009	5009K-ND
1	C2	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	AVX	06033C104KAT2A	478-3714-1-ND
1	C3	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A101JAT2A	478-1175-1-ND
2	R1, R3	1.00k	RES 1K OHM 1/16W .1% 0603 SMD	Bourns	CRT0603-BY-1001ELF	CRT0603-BY-1001ELFCT-ND
1	RL	10.0k	RES 10K OHM 1/10W 1% 0603	Stackpole Electronics Inc	RMCF0603FT10K0	RMCF0603FT10K0CT-ND
1	Rshunt	0.1	RES 0.1 OHM 1/2W 0.5% 1206	Ohmite	LVK12R100DER	LVK12R100DERCT-ND
4	U94, U95, U96, U97		MACHINE SCREW PAN PHILLIPS 4-40	B&F Fastener Supply	PMSSS 440 0025 PH	H703-ND
1	U1		IC OPAMP GP 1MHZ RRO 8VSSOP	Texas Instruments	OPA2313IDGK	296-35004-ND
2	R5, R6	10.0k	RES 10.0K OHM 1/16W .5% 0603 SMD	Susumu Co Ltd	RR0816P-103-D	RR08P10.0KDCT-ND
2	R2, R4	15.4k	RES 15.4K OHM 1/10W .1% 0603 SMD	Susumu Co Ltd	RG1608P-1542-B-T5	RG16P15.4KBCT-ND
4	U90, U91, U92, U93		STANDOFF HEX 4-40THR ALUM 1L"	Keystone	2205	2205K-ND
1	C1	10uF	CAP, TA, 10uF, 25V, +/-10%, 0.5 ohm, SMD	AVX	TPSC106K025R0500	478-1762-1-ND