

Bill of Materials

TI DESIGNS
TIPD156: Low-drift, Bi-directional, Single-supply, Low-side Current Sensing Solution

Item #	Quantity	Designator	Value	Description	Manufacturer	Manufacturer Part Number	Supplier Part Number
1	1	C1	10uF	CAP, TA, 10uF, 25V, +/-10%, 0.5 ohm, SMD	AVX	TPSC106K025R0500	478-1762-1-ND
2	1	C2	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K080AC	445-1604-1-ND
3	3	C3, C4, C6	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	AVX	06033C104KAT2A	478-3714-1-ND
4	2	C5, C7	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A101JAT2A	478-1175-1-ND
5	1	Rshunt	10mohm	RES, 0.010 ohm, 0.1%, 1W, CSM2512	Vishay Foil Resistors	Y14870R01000B9W	Y148701-ND
6	1	Vout	White	Test Point, Compact, White, TH	Keystone	5007	5007K-ND
7	1	VCC	Red	Test Point, TH, Compact, Red	Keystone	5005	5005K-ND
8	4	GND	Black	Test Point, TH, Compact, Black	Keystone	5006	5006K-ND
9	1	Vbias	Yellow	Test Point, Compact, Yellow, TH	Keystone	5009	5009K-ND
10	1	Vref	Orange	Test Point, Compact, Orange, TH	Keystone	5008	5008K-ND
11	1	lin	Yellow	Test Point, Compact, Yellow, TH	Keystone	5009	5009K-ND
12	1	U1		IC OPAMP CURR SENSE 14KHZ SC70-6	Texas Instruments	INA213BDCK	INA213BIDCKR-ND
13	1	U2		Dual output, low-drift reference	Texas Instruments	REF2030AIDDC	
14	4	N/A		STANDOFF HEX 4-40THR ALUM 1L"	Keystone	2205	2205K-ND
15	4	N/A		MACHINE SCREW PAN PHILLIPS 4-40	B&F Fastener Supply	PMSSS 440 0025 PH	H703-ND
16	1	N/A		PCB FOR TI REF DESIGN TIPD156	American PCB Company	TIPD156	

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