

# Bill of Materials

**TI DESIGNS**

TIPD192: SPI Programmable, High Accuracy, Fast Settling ± 10V Voltage Output for Analog Output Modules

Quantity	Value	Designator	Description	Manufacturer	Manufacturer Part #
6	0.1uF	C1, C3, C6, C8, C14, C15	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H104KA93D
5	Red	TP_GND, TP_Vdac, TP_Vfb, TP_Vref, TP_Vrefin	Test Point, Miniature, Red, TH	Keystone	5000
4		H1, H2, H3, H4	Bumpon, Cylindrical, 0.312 X 0.200, Black	3M	SJ61A1
4		J1, J2, J3, J5	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	On-Shore Technology	ED555/2DS
3	10uF	C2, C9, C16	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	MuRata	GRM219R61E106KA12
3	100pF	C4, C7, C11	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H101JA01D
3		FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A
2	1uF	C10, C13	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	MuRata	GRM188R61E105KA12D
2	12pF	C5, C17	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H120JA01D
2	1.00k	R1, R2	RES, 1.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00FKEA
1		U1	16-Bit, Ultra-Low Power, Voltage-Output Digital-to-Analog Converter, RGY0014A	Texas Instruments	DAC8832ICRGYR
1	10uF	C12	CAP, TA, 10 µF, 16 V, +/- 10%, 0.5 ohm, SMD	AVX	TPSB106K016R0500
1		J4	Header, 100mil, 3x2, Gold, TH	Samtec	TSW-103-07-G-D
1		U2	Low-Noise, Low Quiescent Current, 36-V, Rail-to-Rail, Input/Output, Precision Operational Amplifiers, e-trim Series, PW0014A	Texas Instruments	OPA4192AIPWR
1		U3	Low-Noise, Very Low Drift, Precision Voltage Reference, DGK0008A	Texas Instruments	REF5050IDGK

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