

Bill of Materials

TI DESIGNS

TIPD125: Bipolar +/-10V Output from a Unipolar DAC for Industrial Voltage Drivers

Item #	Quantity	Value	Designator	Description	Manufacturer	Part Number	Supplier Part Number 1
1	3	0.1uF	C1, C3, C5	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	AVX	06033C104JAT2A	478-3713-1-ND
2	3	100pF	C2, C4, C6	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A101JAT2A	478-1175-1-ND
3	1	150pF	C7	CAP CER 150PF 50V 1% NP0 0603	TDK	C1608C0G1H151F080AA	445-7031-1-ND
4	1	20nF	C8	CAP CER 0.02UF 50V 10% X7R 0603	Samsung	CL10B203KB8NNNC	1276-1984-1-ND
5	1	71.5	R4	RES 71.5 OHM 1/10W 1% 0603 SMD	Panasonic	ERJ-3EKF71R5V	P71.5HTR-ND
6	3	10pF	C9, C10, C11	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H100JA01D	490-1403-1-ND
7	1		J1	Header, TH, 100mil, 4x2, Gold plated, 230 mil above insulator	Samtec, Inc.	TSW-104-07-G-D	SAM1028-04-ND
8	2		J2, J3	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	On-Shore Technology, Inc.	ED555/2DS	ED1514-ND
9	1		J4	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology, Inc.	ED555/3DS	ED1515-ND
10	1	8.25k	R1	RES 8.25K OHM 1/10W .1% 0603 SMD	Susumu	RG1608P-8251-B-T5	RG16P8.25KBTR-ND
11	1	11.0k	R2	RES 11.0K OHM 1/10W .1% 0603 SMD	Susumu	RG1608P-113-B-T5	RG16P11.0KBCT-ND
12	1	33.0k	R3	RES 33.0K OHM 1/10W .1% 0603 SMD	Susumu	RG1608P-333-B-T5	RG16P33.0KBTR-ND
13	1	Red	TP1, TP2, TP3, TP4, TP5	Test Point, Miniature, Red, TH	Keystone	5000	5000K-ND
14	5	Black	TP6, TP7, TP8, TP9, TP10	Test Point, Miniature, Black, TH	Keystone	5001	5001K-ND
15	1		U1	16-Bit, Ultra-Low Glitch, Voltage Output Digital-to-Analog Converter	Texas Instruments	DAC8560IDDGK	296-21388-1-ND
16	1		U2	Wideband, Low-Power Voltage Feedback Operational Amplifier	Texas Instruments	OPA188AIDR	296-36185-5-ND

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