

# Bill of Materials

**TI DESIGNS**

TIPD137: ±10V 4-Quadrant Multiplying DAC

Item #	Quantity	Designator	Value	Description	Manufacturer	PartNumber
1	3	C1, C3, C5	10uF	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	MuRata	GRM31CR61E106KA12L
2	3	C2, C4, C6	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R, 1206	AVX	12063C105KAT2A
3	3	C11, C14, C16	100pF	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	AVX	06033C101KAT2A
4	3	C12, C15, C17	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C104K3RACTU
5	1	C13	0.012uF	CAP, CERM, 0.012uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E123KA01D
6	3	FID1, FID2, FID3		Fiducial mark. There is nothing to buy or mount.	N/A	N/A
7	1	J1		Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	Samtec	TSW-104-07-G-S
8	5	J2, J3, J4, J5, J6		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	On-Shore Technology, Inc.	ED555/2DS
9	1	R3	10.0kΩ	RES, 10.0k ohm, 0.5%, 0.125W, 0805	Yageo America	RT0805DRE0710KL
10	2	R4, R5	20.0kΩ	RES, 20.0k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080520K0FKEA
11	3	TP1, TP2, TP3		Test Point, Multipurpose, Red, TH	Keystone	5010
12	3	TP11, TP12, TP13		Test Point, Multipurpose, Black, TH	Keystone	5011
13	1	U1		16-Bit, Serial Input Multiplying Digital-to-Analog Converter, DGK0008A	Texas Instruments	DAC8811ICDGK
14	1	U3		High Precision OPERATIONAL AMPLIFIER, D0008A	Texas Instruments	OPA2277UA

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