

Bill of Materials

TI DESIGNS

TIPD139: Dual Supply Absolute Value Circuit

Quantity	Value	Designator	Description	Manufacturer	PartNumber
2	10uF	C1, C3	CAP, TANT, 10uF, 50V, +/-10%, 0.4 ohm, 7343-43 SMD	AVX	TPSE106K050R0400
2	0.1uF	C2, C4	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	MuRata	GRM188R72A104KA35D
4	100pF	C5, C7, C10, C12	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0805	MuRata	GRM2165C1H101JA01D
4	0.1uF	C6, C8, C11, C13	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0805	MuRata	GRM21BR71H104KA01L
1	47pF	C9	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	Kemet	C0603C470J5GACTU
2	1.25V	D1, D2	Diode, Ultrafast, 100V, 0.15A, SOD-123	Diodes Inc.	1N4148W-7-F
3	NA	J1, J2, J3	Standard Banana Jack, Uninsulated, 5.5mm	Keystone	575-4
2	NA	J4, J5	Connector, TH, SMA	Emerson Network Power	142-0701-201
2	1.00k	R1, R2	RES, 1.00k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD071KL
1	1.00k	R3	RES, 1.00k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-071KL
1	49.9	R4	RES 49.9 OHM 0.20W 0.1% 0805	Vishay Thin Film	PAT0805E49R9BST1
1	Red	TP1	Test Point, TH, Miniature, Red	Keystone	5000
4	Black	TP2, TP3, TP4, TP5	Test Point, TH, Miniature, Black	Keystone	5001
1	Yellow	TP10	Test Point, TH, Miniature, Yellow	Keystone	5004
3	White	TP11, TP12, TP13	Test Point, TH, Miniature, White	Keystone	5002
2	NA	U1, U2	IC OPAMP GP 80MHZ RRO 8SOPWRPAD	Texas Instruments	OPA2211AIDDA

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