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LCR Meter_OPA2810 REV _E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		LCR Meter_OPA2810	Any	Printed Circuit Board	
2	C2, C5, C6, C9, C23, C32, C33, C36, C38, C40, C42, C44	12	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
3	C3, C4, C7, C8, C15, C17, C19, C21, C41, C43	10	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
4	C14, C16, C18, C20, C22, C24, C34, C35, C37, C39	10	10uF	GRM21BC8YA106KE11L	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X6S, 0805	0805
5	D1, D2, D5, D6	4	14V	MMSZ4701T1G	ON Semiconductor	Diode, Zener, 14 V, 500 mW, SOD-123	SOD-123
6	D3, D4	2	18V	MMSZ4705T1G	ON Semiconductor	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
7	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
8	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
9	J1, J2, J3, J4, J5, J6, J7, J10, J14, J17, J18	11		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
10	J8, J9, J11, J12, J13, J21	6		142-0701-806	Cinch Connectivity	Connector, End launch SMA, 50 ohm, SMT	End launch SMA
11	J15, J16, J20	3		1759020	Phoenix Contact	Header (Shrouded), 5.08mm, 3x1, Tin, R/A, TH	Header (Shrouded), 5.08mm, 3x1, R/A, TH
12	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
13	R1, R2, R3, R4, R15, R16, R17, R18, R22, R23, R27, R28, R29, R30, R33, R34, R35, R36, R37, R38, R39, R40, R42	23	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
14	R5, R10	2	100	RG1005P-101-B-T5	Susumu Co Ltd	RES, 100, 0.1%, 0.063 W, 0402	0402
15	R6, R11, R12, R13	4	5.00k	PNM0402E5001BST1	Vishay-Dale	RES, 5.00 k, 0.1%, 0.05 W, 0402	0402
16	R7, R21	2	100k	RG1608P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.1 W, 0603	0603
17	TP1, TP4, TP5, TP6, TP7, TP8, TP9	7		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
18	TP2, TP3	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
19	U1, U2	2		OPA2810DGK	Texas Instruments	OPA2810DGK, DGK0008A (VSSOP-8)	DGK0008A
20	U3, U4	2		BUF634U/2K5	Texas Instruments	250mA High-Speed Buffer, D0008A (SOIC-8)	D0008A
21	C1, C10, C11, C12, C25, C26, C27	0	5pF	GRM1555C1H5R0CA01D	MuRata	CAP, CERM, 5 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
22	C13	0		Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	2010
23	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
24	L1	0		Used in BOM report	Used in BOM report	Inductor, [Technology], [Material], xxuH, xxA, x.xx ohm, [MountType]	1210
25	R8, R9, R19, R20, R24, R25, R26, R31, R32, R41, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52	0	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
26	R14	0		Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	0805
27	U7	0		VCA821IDGST	Texas Instruments	Wideband, > 40 dB Adjust Range, Linear in dB Variable Gain Amplifier, -40 to 85 degC, 10-pin SOP (DGS10), Green (RoHS & no Sb/Br)	DGS0010A

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