



Bill of Materials

TI DESIGNS

TIPD189: Headphone Amplifier for Voltage Output Audio DACs

Item	Qty	Value	Designator	Description	Manufacturer	Part Number	Supplier Part Number 1
1	4	33pF	C1, C2, C3, C4	CAP, CERM, 33pF, 100V, +/- 5%, C0G/NP0, 0603	AVX	06031A330JAT2A	478-1143-1-ND
2	2	0.1uF	C5, C6	CAP, CERM, 0.1uF, 16V, +/- 5%, X7R, 0603	AVX	0603YC104JAT2A	478-3726-1-ND
3	2	10uF	C7, C8	CAP, CERM, 10uF, 50V, +/- 10%, X5R, 1206_190	TDK	CGA5L3X5R1H106K160AB	445-7886-1-ND
4	2		J1, J3	Header, 100mil, 3x1, Tin, TH	TE Connectivity	5-146278-3	5-146278-3-ND
5	1		J2	Connector, Audio Jack, 3.5mm, Stereo, SMD	CUI Inc.	SJ-3523-SMT	CP-3523SJCT-ND
6	1		J4	ED555/3DS	On Shore Technology Inc	ED555/3DS	ED1515-ND
7	4	2.00k	R1, R3, R5, R7	RES, 2.00k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD072KL	603-RT0603BRD072KL
8	4	1.47k	R2, R4, R6, R8	RES, 1.47k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD071K47L	
9	2	Red	TP1, TP3	Test Point, Miniature, Red, TH	Keystone	5000	5000K-ND
10	2	Black	TP2, TP4	Test Point, Miniature, Black, TH	Keystone	5001	5001K-ND
11	1		U1	36V, 10MHz, Low Distortion High Drive Audio Op Amp	Texas Instruments	OPA1688IDRGR	