

**Boops Card12 Mouser BOM**

Reference	Qty	OrdQty	Mouser #	Description
<b>Semiconductors</b>				
Q1	1	1	512-BC547CTA	BJT NPN 45V 100mA HFE/800
Q3, Q4	2	2	863-BD437TG	BJT 4A 45V 36W NPN
Q2	1	1	512-BC557ATA	BJT PNP -45V -100mA HFE/220
Q5, Q6	2	2	512-BD438S	BJT PNP Epitaxial Silicon
D1, D2, D3, D4	4	4	512-1N4148	Diodes - General Purpose
U1	1	1	595-OPA134PA	Audio Amplifiers SoundPlus™
U2	1	1	595-TL074BCNE4	Quad Op Amp
U3	1	1	595-OPA552PA	Op Amps High Speed, High Current
<b>Resistors Metal Film 1/4W 1% unless specified</b>				
R25, R26, R27, R28, R29,				
R30	6	10	603-MFR-25FTE52-1R2	
R35	1	10	291-4.7-RC	5% Carbon Film Resistor
R31, R33	2	10	271-47-RC	
R8, R9, R11	3	10	271-100-RC	
R32, R34	2	10	271-120-RC	
R15, R20, R21, R43	4	10	271-470-RC	
R1, R16, R38	3	10	271-1K-RC	
R39	1	10	271-2.2K-RC	
R3	1	10	271-2.7K-RC	
R6, R7	2	10	271-3.3K-RC	
R37	1	10	271-6.8K-RC	
R2, R10, R14, R23, R24,				
R40, MB Mod	7	10	271-10K-RC	
R4, R5	2	10	271-15K-RC	
R12	1	10	271-22K-RC	
R18, R41	2	10	271-33K-RC	
R17, R22	2	10	271-47K-RC	
R36	1	10	271-100K-RC	
R19, R42	2	10	271-150K-RC	
R13	1	10	271-220K-RC	
<b>Capacitors</b>				
C12, C14, C15, C24, C26,				
C27	6	6	81-RDE5C1H101J0M1H3A	Ceramic 100 pF 50V COG 5mm LS
C23	1	1	81-RDE5C1H221J0M1H3A	Ceramic 122 pF 50V COG 5mm LS
C10	1	1	871-B32621A3332J	Film 3.3nF 5% 250V 10mm LS
C6, C11	2	2	80-MMK5102J50J01L4	Film 1nF 5% 50V 5mm LS
C4	1	1	539-150333J250BB	Film 33nF 250V 5% axial
C5	1	1	75-MKT1813368014	Film 68nF 100V 5% axial
C16	1	1	75-MKT1813422014	Film 220nF 100V 5% axial
C20	1	1	80-MMK5224J50J01L4	Film 220nF 50V 5% 5mm LS
C7, C8	2	2	505-MKS2B041001C00JO	Film 1uF 50V 5% 5mm LS
C13	1	1	647-TVX1H4R7MAD	4.7uF 50V axial
C22, C25	2	2	80-ESK106M016AC3KA	10uF 16V 2mm LS 5mm dia
C1, C2, C3, C17	4	4	75-517D107M016AA6AE3	100uF 16volts 20% 2.5mm LS 6.3mm dia
C18, C19	2	2	75-517D108M016CG6AE3	1000uF 16volts 20% 5mm LS 10mm dia
C9	1	1	594-2222-150-30102	1000uF 35V 20% 5mm LS 12mm dia
C21	1	1	75-515D228M016DK6AE3	2200uF 16volts 20% 5mm LS 12.5mm dia
<b>Misc Parts</b>				
	3	3	951-SP2000-015-58	High Rel Insulator, 0.015" Thick TO-220
	3	3	532-7721-7PPS	4-40 shoulder washer
	1	1	517-4814-3000-CP	14 pin DIP socket
	2	2	517-4808-3000-CP	8 pin DIP socket
	3	3	538-09-48-2061	0.156" KK PCB CONNECTOR
	2	2	571-6404542	0.100" MTA header
	2	2	571-3-640441-2	0.100" MTA connector
	2	2	571-6405502	0.100" MTA dust cover