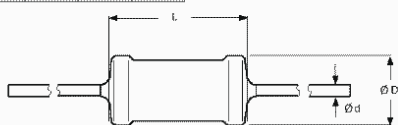
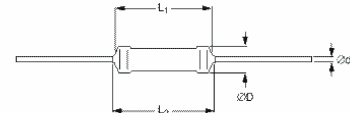
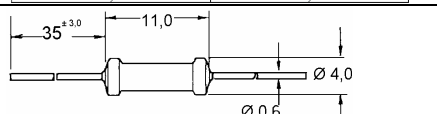
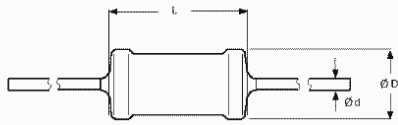
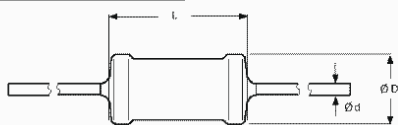
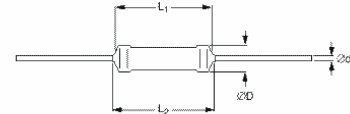
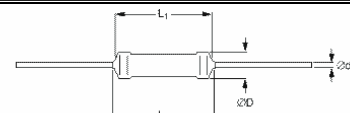
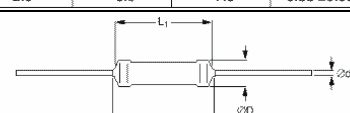


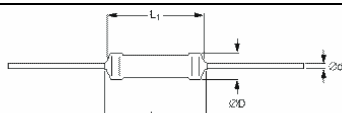
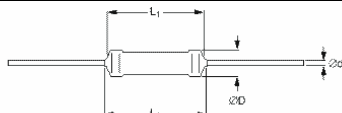
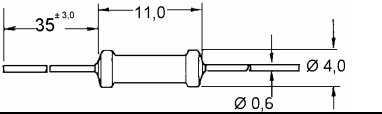
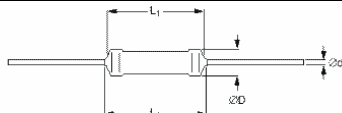
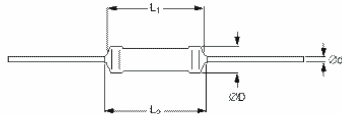
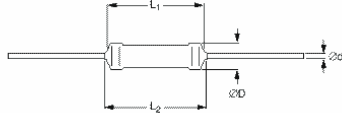
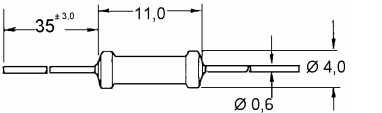
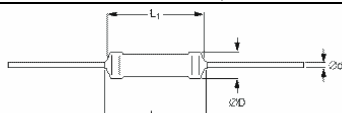
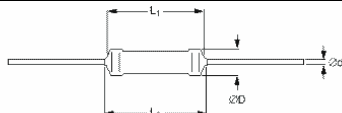
# **DELTA AUDIO LEACH AMP CLONE** (6 transistor version)

## Parts List

(Last updated 19.07.2005)

Qty	Value	Device	Order number and additional notes
3	2 pin terminal block 5 mm pin spacing Optional	OUT, VCC, VSS	
2	2 pin header 2.54 mm pin spacing	IN TH1	
2	10000 uF 80 – 100V 40 mm in diameter 10 mm pin spacing	C21, C27	
4	100 uF 100V 13 mm in diameter 5 mm pin spacing	C1, C3, C10, C14	
2	470 uF 16V 10.5mm in diameter 5 mm pin spacing Not polarised	C7, C12	DIGIKEY: P1170-ND
5	1 uF 63V film, PE or PP 5 x 7.2 mm box 5 mm pin spacing	C4, C6, C11, C13, C19	
1	1 uF 100V, PE or PP 7.2 x 18.3 mm box 15 mm pin spacing	C33	
9	100 nF 100V, PE or PP 6.4 x 13.3 mm box 10 mm pin spacing	C2, C15, C22, C23, C24, C28, C29, C30, C34	
2	10 pF 500V MICA Depth: 4.32mm; Width: 11.43mm 5.72 mm Pins pacing	C16, C20	DIGIKEY:338-1061-ND
1	39 pF 500V MICA Depth: 4.32mm; Width: 11.43mm 5.72 mm Pins pacing	C5	DIGIKEY:338-1093-ND
1	180 pF 500V MICA Depth: 4.32mm; Width: 11.43mm 5.72 mm Pins pacing	C9	DIGIKEY:338-1082-ND
2	100 pF 63V, PE or PP 5 x 7.2 mm box 5 mm pin spacing	C17, C18	
1	330 pF 63V, PE or PP 5 x 7.2 mm box 5 mm pin spacing	C8	
2	10 nF 63V, PE or PP 3 x 7.2 mm box 5 mm pin spacing	C35, C42	
6	1N4007	D6, D8, D9, D11, D15, D16	DIGIKEY:1N4007RLOSCT-ND
6	1N4148	D5, D7, D10, D12, D13, D14	DIGIKEY: 1N4148FS-ND
4	20V zener; 0.5W	D1, D2, D3, D4	DIGIKEY: 1N5250DO35MSCT-ND

6	0R47 5W	R46, R47, R48, R52, R53, R54	<table border="1"> <thead> <tr> <th>TYPE</th><th>ØD MAX. (mm)</th><th>L MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>5W</td><td>7.5</td><td>17</td><td>0.8</td></tr> <tr> <td>7W</td><td>7.5</td><td>25</td><td>±0.03</td></tr> </tbody> </table> 	TYPE	ØD MAX. (mm)	L MAX. (mm)	Ød (mm)	5W	7.5	17	0.8	7W	7.5	25	±0.03
TYPE	ØD MAX. (mm)	L MAX. (mm)	Ød (mm)												
5W	7.5	17	0.8												
7W	7.5	25	±0.03												
7	10R 1% 0.6W	R4, R36, R37, R38, R63, R64, R65	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05				
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2.5	6.5	7.5	0.58 ±0.05												
2	100R 5% 1W Optional Do not mount if F3 + F4 is used	R1, R23													
1	10R 5W	R57	<table border="1"> <thead> <tr> <th>TYPE</th><th>ØD MAX. (mm)</th><th>L MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>5W</td><td>7.5</td><td>17</td><td>0.8</td></tr> <tr> <td>7W</td><td>7.5</td><td>25</td><td>±0.03</td></tr> </tbody> </table> 	TYPE	ØD MAX. (mm)	L MAX. (mm)	Ød (mm)	5W	7.5	17	0.8	7W	7.5	25	±0.03
TYPE	ØD MAX. (mm)	L MAX. (mm)	Ød (mm)												
5W	7.5	17	0.8												
7W	7.5	25	±0.03												
1	10R 5W // 10 turns of 1mm <sup>2</sup> wire	L/R	<table border="1"> <thead> <tr> <th>TYPE</th><th>ØD MAX. (mm)</th><th>L MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>5W</td><td>7.5</td><td>17</td><td>0.8</td></tr> <tr> <td>7W</td><td>7.5</td><td>25</td><td>±0.03</td></tr> </tbody> </table> 	TYPE	ØD MAX. (mm)	L MAX. (mm)	Ød (mm)	5W	7.5	17	0.8	7W	7.5	25	±0.03
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7W	7.5	25	±0.03												
2	1k 1% 0.6W	R16, R32	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05				
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2	1k2 1% 0.6W	R2, R21	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05				
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2	12k 1% 0.6W	R5, R20	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05				
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1	220R 1% 0.6W	R51	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)								
2.5	6.5	7.5	0.58 ±0.05								
2	2k2 1% 0.6W	R11, R29	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
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2	3k9 5% 1W	R3, R22,	<p>Calculate as <math>(V - 40)/8.2</math></p> 								
2	22k 1% 0.6W	R8, R17	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
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2	33R 1% 0.6W	R24, R35	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)								
2.5	6.5	7.5	0.58 ±0.05								
22	330R 1% 0.6W	R6, R7, R9, R10, R14, R15, R18, R19, R25, R27, R31, R33	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)								
2.5	6.5	7.5	0.58 ±0.05								
1	4k7 Trimmer B64Y or B64W	P1									
	TO BE DEFINED	R26, R34, R68, R69									
2	11k 1% 0.6W	R12, R13	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
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	TO BE DEFINED	R41, R42, R43, R60, R61, R62, R28, R30	 <table border="1"> <thead> <tr> <th>ØD MAX. (mm)</th><th>L1 MAX. (mm)</th><th>L2 MAX. (mm)</th><th>Ød (mm)</th></tr> </thead> <tbody> <tr> <td>2.5</td><td>6.5</td><td>7.5</td><td>0.58 ±0.05</td></tr> </tbody> </table>	ØD MAX. (mm)	L1 MAX. (mm)	L2 MAX. (mm)	Ød (mm)	2.5	6.5	7.5	0.58 ±0.05
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6	MPSA42	T1, T2, T3, T10, T11, T15	
5	MPSA92	T4, T5, T6, T7, T12	
2	MJE340	T9, T14	
2	MJE350	T8, T13	
1	MJE15032 Mount on small heatsink (DIY)	T21	Please report if you find an off the shelf heatsink that works
1	MJE15033 Mount on small heatsink (DIY)	T22	Please report if you find an off the shelf heatsink that works
3	MJL4302 / MJL1302 / 2SA1302	T23, T24, T25	
3	MJL4281 / MJL3281 / 2SC3281	T16, T17, T18	
2	12A Length 25mm width 10mm 22.5 mm Pins pacing	F1, F2 Fuse holder	
2	100mA Fuseholdes round Optional More details to come	F3, F4 Fuse holder	