

Amplificatore HLA 305

List of components

C 1	= 10 pF	50V	NP0	C 25 - C 26 = 1300pF	500V	Mica
C 2	= 100 nF	50V		C 27 to C 30 = 100 nF	500V	SMD
C 3	= 10 nF	50V		C 31 to C 32 = 470 pF	200V	SMD
C 4	= 220 nF	50V	Multilayer	C 33	= 220 pF	500V Mica
C 5	= 10 pF	50V	NP0	C 34	= 470 pF	200V SMD
C 6	= 22 pF	50V	NP0	C 35	= 22 pF	500V NP0
C 7	= 82 pF	50V	NP0	C 36	= 39 pF	500V Mica
C 8	= 4,7 pF	50V	NP0	C 37	= 39 pF	500V Mica
C 9	= 22 µF	25V		C 38	= 12 pF	500V Mica
C 10 - C 11 = 100 nF	50V			C 39	= 56 pF	500V Mica
C 12	= 470 µF	25V		C 40	= 56 pF	500V Mica
C 13 - C 14 = 2x470 pF	50V N750			C 41	= 68 pF	500V Mica
C 15	= 100 nF	50V		C 42	= 18 pF	500V Mica
C 16	= non presente			C 43	= 39 pF	500V Mica
C 17	= non presente			C 44	= 47 pF	500V Mica
C 18	= non presente			C 45	= 39 pF	500V Mica
C 19 to C 20 = 100 pF	50V	NP0		C 46	= 39 pF	500V Mica
C 21 to C 24 = 4,7 nF	50V			C 47	= 12 pF	500V Mica
C 49	= 68 pF	500V	Mica	C 48	= 68 pF	500V Mica
C 50	= 68 pF	500V	Mica	C 122	= 100 nF	50V
C 51	= 18 pF	500V	Mica	C 123	= 4,7 pF	50 V NP0
C 52	= 39 pF	500V	Mica	C 124	= 470 pF	200V SMD
C 53	= 39 pF	500V	Mica	C 125 - C 126 = 10 nF	50V	
C 54	= 51 pF	500V	Mica	C 127	= 100 nF	50 V
C 55	= 51 pF	500V	Mica	C 128	= 220 pF	500V Mica
C 56	= 15 pF	500V	Mica	C 129	= 1,0 nF	50V
C 57	= 91 pF	500V	Mica	C 130	= 10 nF	50V
C 58	= 91 pF	500V	Mica	C 131	= 1,0 nF	500V
C 59	= 91 pF	500V	Mica	C 132	= 470 nF	100V Polyester
C 60	= 56 pF	500V	Mica	C 133	= 10 nF	50V
C 61	= 56 pF	500V	Mica	C 134	= 1,0 nF	500V
C 62	= 56 pF	500V	Mica	C 135	= 470 nF	100V Polyester
C 63	= 180 pF	500V	Mica	C 136 to C 140 = 100 nF	50 V	
C 64	= 180 pF	500V	Mica	C 141	= 68 pF	500V Mica
C 65	= 39 pF	500V	Mica	C 142	= 330 pF	500V Mica
C 66	= 200 pF	500V	Mica	C 143	= 330 pF	500V Mica
C 67	= 200 pF	500V	Mica	C 144	= 390 pF	500V Mica
C 68	= 100 nF	50 V		C 145	= 180 pF	500V Mica
C 69	= 200 pF	500V	Mica	C 146	= 220 pF	500V Mica
C 70	= 120 pF	500V	Mica	C 147	= 220 pF	500V Mica
				C 148	= 750 pF	500V Mica

C 71	= 100 pF	500V	Mica	C 149	= 750 pF	500V	Mica
C 72	= 100 pF	500V	Mica	C 150	= 150 pF	500V	Mica
C 73	= 220 pF	500V	Mica	C 151	= 750 pF	500V	Mica
C 74	= 220 pF	500V	Mica	C 152	= 750 pF	500V	Mica
C 75	= 10 μ F	25 V		C 153	= 750 pF	500V	Mica
C 76	= 470 μ F	25 V		C 154	= 430 pF	500V	Mica
C 77	= 220 pF	50 V	N750	C 155	= 510 pF	500V	Mica
C 78 - C 79	= 220 nF	50V	Multilayer	C 156	= 510 pF	500V	Mica
C 80	= 10 μ F	25 V		C 157 - C 158	= 10 nF	50V	
C 81	= 100 nF	50 V		C 159 - C 164	= 100 nF	50V	
C 82	= 22 μ F	25 V		C 165	= 10 nF	50V	
C 83 - C 84	= 100 nF	50 V		C 166	= 100 nF	50 V	
C 85 to C 87	= 220 nF	50V	Multilayer	C 167 - C 168	= 10 nF	50V	
C 88	= 100 nF	50 V		C 169	= 100 nF	63V	Polyester
C 89 - C 90	= 220 nF	50V	Multilayer	C 170	= 10 nF	50V	
C 91 to C 93	= 100 nF	50 V		C 171 to C 179	= 100 nF	50V	
C 94	= 100 μ F	35 V		C 180	= 100 μ F	35 V	
C 95 to C 103	= 100 nF	50 V		R 1	= 22 K Ω	$\frac{1}{4}$ W	
C 103	= 10 μ F	25 V		R 2	= 47 K Ω	$\frac{1}{4}$ W	
C 104 - C 105	= 470 μ F	25 V		R 3	= 1,0 K Ω	$\frac{1}{4}$ W	
C 106	= 100 nF	50 V		R 4 - R 5	= 100 K Ω	$\frac{1}{4}$ W	
C 107	= 470 nF	100V	Polyester	R 6 - R 7	= 330 Ω	$\frac{1}{4}$ W	
C 108 to C 112	= 100 nF	50 V		R 8	= 10 K Ω	$\frac{1}{4}$ W	
C 113 to C 116	= 100 nF	500V	SMD	R 9 to R 11	= 2,2 Ω	1W	
C 117	= 220 nF	50V	Multilayer	R 12	= 1,0 K Ω	$\frac{1}{4}$ W	
C 120	= 100 nF	50V		R 13	= 470 K Ω	$\frac{1}{4}$ W	
C 121	= 10 nF	50V		R 14	= 1,0 K Ω	$\frac{1}{4}$ W	

R 15 to R 17 = 4,7 K Ω	¼W	TRIM 2 = 10 K Ω	
R 18 = 2,2 Ω	1W	TRIM 3 = 1,0 K Ω	
R 19 = 10 K Ω	¼W	Att 1 = -3 dB	
R 20 = 1,0 K Ω	¼W	D 1 - D 5 = 1N4148	
R 21 = 33 Ω	5W	D 6 = 1N5711	
R 22 - R 23 = 10 K Ω	¼W	D 7 to D 9 = 1N4148	
R 24 = 10 Ω	5W	D 10 - D 11 = 1N5711	
R 25 = 1,0 Ω	¼W	D 12 = 1N4007	
R 26 - R 27 = 10 K Ω	¼W	D 13 = 1N5400	
R 28 = 4,7 K Ω	¼W	D 14 = 1N4148	
R 29 = 10 K Ω	¼W	D 15 = 1N4007	
R 30 = 10 K Ω	¼W	D 16 = BAT41	
R 31 to R 32 = 10 Ω	5W	D 17 - D 18 = 1N4148	
R 33 = 10 K Ω	¼W	D 19 - D 20 = 1N4007	
R 34 = 100 Ω	2W	D 22 to D 28 = 1N4007	
R 35 to R 38 = 2,2 Ω	1W	D 29 to D 31 = 1N5400	
R 39 to R 42 = 8,2 Ω	1W	Led 19 = Alarm	
R 43 = 100 Ω	5W	Led 20 = TX	
R 44 = 10 K Ω	¼W	Tr 1 = BF199	
R 45 - R 46 = 10 K Ω	¼W	Tr 2 to Tr 4 = BC547B	
R 47 to R 50 = 1,0 K Ω	¼W	Tr 5 = BC337-25	
R 51 - R 52 = 47 Ω	½W	Tr 6 = BDX53BFP	
R 53 = 1,0 K Ω	¼W	Tr 7 - Tr 10 = MRF455	
R 54 - R 55 = 2,2 K Ω	¼W	Tr 11 = BC557B	
R 56 = 47 Ω	¼W	Tr 20 = BC337-25	
R 57 - R 58 = 10 K Ω	¼W	Ic 1 = 74HC14	
R 59 to R 60 = 68 Ω	¼W	Ic 2 = 74HC74	
R 61 = 2,7 K Ω	¼W	Ic 3 = 18F46K20	
R 62 = 10 K Ω	¼W	Ic 4 = 74CBTD3384	
R 63 = 220 K Ω	¼W	Ic 5 = LD1117V33C	
R 64 = 4,7 K Ω	¼W	Ic 6 = 7805	
R 65 = 10 K Ω	¼W	Ic 7 = M41T00	
R 66 to R 67 = 1,0 K Ω	¼W	Ic 9 = LM324	
R 68 = 4,7 K Ω	¼W	Ic 10 = LM723C	
R 69 = 1,0 K Ω	¼W	Ic 11 = ACS758LCB-50	
R 70 = 2,2 K Ω	¼W	Ic 12 = AD8534	
R 71 = 1,0 K Ω	¼W	Ic 13 = M41T00CAP	
R 86 to R 87 = 10 K Ω	¼W	Ic 14 = 24LC1025	
R 88 to R 91 = 8,2 Ω	1W	Ic 15 = MCP23017	
R 92 = 1,0 Ω	¼W	Ic 16 = UDN2981	
R 93 = 1,0 K Ω	¼W	L 1 = 10 μ H	
R 94 = 18 K Ω	¼W	L 2 - L 3 = VK200	
R 95 = 8,2 K Ω	¼W	L 5 - L 6 = VK200	
R 96 = 100 Ω	¼W	L 7 - L 8 = VK200	Verticale 2 fili
R 97 = 2,2 K Ω	¼W	L 9 = 300 nH	SEM 9608961005
Rr 4 - Rr 5 = 6A103G		L 10 = 250 nH	SEM 9608961004
Rr 6 = 8B470G		L 11 = 550 nH	SEM 9608961008
Rr 7 - Rr 8 = 6A103G		L 12 = 450 nH	SEM 9608961007
NTC 1 = 10 K Ω			

L 13 = 630 nH SEM 9608961009
L 14 = 550 nH SEM 9608961008
L 15 = 1,3 μ H SEM 9608960211
L 16 = 1,0 μ H SEM 9608960209
L 17 = 2,7 μ H SEM 9608960217
L 18 = 2,5 μ H SEM 9608960216
L 19 = 5,3 μ H SEM 9608960225
L 20 = 4,6 μ H SEM 9608960223
L 21 = 1,0 mH
L 25 = 1,0 mH
L 26 = 470 μ H
L 27 = 2,2 μ H
L 28 - L 29 = VK200 Verticale 2 fili
L 30 = 1,0 mH
RL 1 = 41.52.7.012
RL 2 = 30,22.9.012
RL 3 - RL 14 = 34.51.7.012
T 1 = SEM 961000005
T 2 = FER 251000115
T 3 = FER 251000115
T 4 = FER 251000109
T 5 = FER 251000109
T 6 = SEM 961000006
T 7 = SEM 961100020
T 8 = SEM 961100015
T 9 = ANRA 963
T 10 = ANRA 963
B 1 = MB12A12
Fuse 5 = 20A
Fuse 6 = 20A
Fuse 7 = 1,6A
Xt1 = non presente