

APÊNDICE A

RELAÇÃO DE MATERIAIS

R H E D E T E C N O L O G I A S.A.

27/12/89

S P M

R5020302.DBF (CARTAO RT27)

Pag : 1

Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
1	01001002	4	DIP SWITCH 8 POLOS	J-S 8747-08	SMK	SA-S0
2	01005001	1	CHAVE PUSHBOTTON 2p2p moment.	SPJ222END28	ALPS	CH8
3	01005101	7	CHAVE PUSHBOTTON 2p2p trava	SPJ222END18	ALPS	CH1-CH7
4	02000811	1	TECLA RT "LAL"	ED2000811	CRW	CH1
5	02000812	1	TECLA RT "LDL"	ED2000812	CRW	CH2
6	02000813	1	TECLA RT "LDR"	ED2000813	CRW	CH3
7	02000814	1	TECLA RT "LAR"	ED2000814	CRW	CH4
8	02000816	1	TECLA RT "SEQ"	ED2000816	CRW	CH5
9	02000817	1	TECLA RT "SVL"	ED2000817	CRW	CH6
10	02000818	1	TECLA RT "AUT"	ED2000818	CRW	CH7
11	02000819	1	TECLA RT "MOD"	ED2000819	CRW	CH8
12	03000401	5	MINI SHUNT OOURADO	880584-5	AMP	A,B,C,D,E
13	03001201	5	PENTE SIMPLES/D1 180. E	880150-1	AMP	RX,OGD,AGC,RTS,EOL
14	03001201	4	PENTE SIMPLES/D1 180. E	880150-1	AMP	OVA,OVD,OVO,OVO
15	03001203	5	PENTE SIMPLES/O3 180. E	880150-3	AMP	A,B,C,D,E
16	03001420	1	PENTE DUPL0/20 180. E	1-880152-0	AMP	J3
17	03008014	1	PENTE SIMPLES/14 90. E	2,54MSP B14	CELIS	J2 (placa de leds)
18	04000901	4	SOQUETE 28 PINOS SOLDA	SPT0CB14	CELIS	U1,3,35,49
19	04001001	5	SOQUETE 40 PINOS SOLDA	SPT0CB20	CELIS	U23,24,30,33,34
20	06000310	2	PARAFUSO M3 PAN PHIL N.1 10mm	M3x10	LIPOS	Fixacao painel-cartao
21	06000401	2	PORCA M3	Preta	INDUPAR	Fixacao painel-cartao
22	06000501	2	ARRUELA LISA M3	Preta	INDUPAR	Fixacao painel-cartao
23	06000601	2	ARRUELA PRESSAO M3	Preta	INDUPAR	Fixacao painel-cartao
24	06000823	2	ARRUELA RETENCAO 2,3	111005-2	ScrewGente	Fixacao do recartilhado
25	06001002	2	PARAFUSO RECARTEILHADO M3 RT	E06001002	METAPLEX	Painel frontal
26	09000802	1	PAINEL FRONTAL - RT	M102	CRW	Painel frontal
27	09003901	1	SUPORTE ETIQUETA RT	EP09003901	METAPLEX	Fixar no parafuso painel
28	10000210	2	TRANSF LINHA COM ENCAPSULADO	65441	AUDIUM	T1,2
29	11011003	1	RESISTOR 1/4W 5% 100 ohm	CR25	CONSTANTA	R42
30	11011005	7	RESISTOR 1/4W 5% 10 Kohm	CR25	CONSTANTA	R2,8,17,33,39,41,76
31	11011006	2	RESISTOR 1/4W 5% 100 Kohm	CR25	CONSTANTA	R44,110
32	11012003	4	RESISTOR 1/4W 5% 200 ohm	CR25	CONSTANTA	R31,32,43,45

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ENGR. C. A. 8/19

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4	Projetado: A. S. 3/9
3	Desenhado: A. S. 3/9
2	Revisado: A. S. 3/9
1	Revisado: A. S. 3/9

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CARTÃO
RT27

R H E D E T E C N O L O G I A S.A.

27/12/89

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R5020302.DBF (CARTÃO RT27)

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Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
33	11012704	1	RESISTOR 1/4W 5% 2.7 Kohm	CR25	CONSTANTA	R40
34	11013303	2	RESISTOR 1/4W 5% 330 ohm	CR25	CONSTANTA	R1,3
35	11014703	11	RESISTOR 1/4W 5% 470 ohm	CR25	CONSTANTA	R5,7,9-18,29
36	11016206	1	RESISTOR 1/4W 5% 820 Kohm	CR25	CONSTANTA	R26
37	11021003	1	RESISTOR 1/4W 1% 100 ohm	MR25	CONSTANTA	R18
38	11021004	2	RESISTOR 1/4W 1% 1 Kohm	MR25	CONSTANTA	R63,89
39	11021005	8	RESISTOR 1/4W 1% 10 Kohm	MR25	CONSTANTA	R4,21,30,34,35,48,54,58
40	11021005	4	RESISTOR 1/4W 1% 10 Kohm	MR25	CONSTANTA	R104,109,127,129
41	11021005	7	RESISTOR 1/4W 1% 10 Kohm	MR25	CONSTANTA	R65,80-82,98,101,103
42	11021024	1	RESISTOR 1/4W 1% 1.02 Kohm	MR25	CONSTANTA	R124
43	11021055	1	RESISTOR 1/4W 1% 10.5 Kohm	MR25	CONSTANTA	R114
44	11021076	1	RESISTOR 1/4W 1% 10.7 Kohm	MR25	CONSTANTA	R143
45	11021104	1	RESISTOR 1/4W 1% 1.1 Kohm	MR25	CONSTANTA	R99
46	11021105	1	RESISTOR 1/4W 1% 1.1 Kohm	MR25	CONSTANTA	R22
47	11021218	2	RESISTOR 1/4W 1% 121 Kohm	MR25	CONSTANTA	R64,100
48	11021245	1	RESISTOR 1/4W 1% 12.4 Kohm	MR25	CONSTANTA	R92
49	11021276	3	RESISTOR 1/4W 1% 127 Kohm	MR25	CONSTANTA	R24,37,87
50	11021305	1	RESISTOR 1/4W 1% 13 Kohm	MR25	CONSTANTA	R62
51	11021336	1	RESISTOR 1/4W 1% 133 Kohm	MR25	CONSTANTA	R113
52	11021374	1	RESISTOR 1/4W 1% 1.37 Kohm	MR25	CONSTANTA	R146
53	11021376	1	RESISTOR 1/4W 1% 137 Kohm	MR25	CONSTANTA	R147
54	11021408	1	RESISTOR 1/4W 1% 140 Kohm	MR25	CONSTANTA	R120
55	11021475	1	RESISTOR 1/4W 1% 14.7 Kohm	MR25	CONSTANTA	R142
56	11021545	1	RESISTOR 1/4W 1% 15.4 Kohm	MR25	CONSTANTA	R137
57	11021585	3	RESISTOR 1/4W 1% 15.8 Kohm	MR25	CONSTANTA	R77,95,125
58	11021625	2	RESISTOR 1/4W 1% 16.2 Kohm	MR25	CONSTANTA	R68,115
59	11021744	1	RESISTOR 1/4W 1% 1.74 Kohm	MR25	CONSTANTA	R144
60	11021825	1	RESISTOR 1/4W 1% 18.2 Kohm	MR25	CONSTANTA	R19
61	11021826	1	RESISTOR 1/4W 1% 182 Kohm	MR25	CONSTANTA	R78 (VET : ajuste OCO)
62	11021915	1	RESISTOR 1/4W 1% 19.1 Kohm	MR25	CONSTANTA	R88
63	11022008	1	RESISTOR 1/4W 1% 200 Kohm	MR25	CONSTANTA	R88
64	11022054	2	RESISTOR 1/4W 1% 2.05 Kohm	MR25	CONSTANTA	R48,140

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Item	Código	Qtd	Descrição do componente	Ref.Comerc.	Fabricante	Referência no Circuito
65	11022155	1	RESISTOR 1/4W 1% 21.5 Kohm	MR25	CONSTANTA	R70
66	11022214	3	RESISTOR 1/4W 1% 2.21 Kohm	MR25	CONSTANTA	R81,73,75
67	11022215	4	RESISTOR 1/4W 1% 22.1 Kohm	MR25	CONSTANTA	R80,105,106,128
68	11022265	1	RESISTOR 1/4W 1% 22.6 Kohm	MR25	CONSTANTA	R55
69	11022376	1	RESISTOR 1/4W 1% 237 Kohm	MR25	CONSTANTA	R8
70	11022554	1	RESISTOR 1/4W 1% 2.55 Kohm	MR25	CONSTANTA	R141
71	11022555	1	RESISTOR 1/4W 1% 25.5 Kohm	MR25	CONSTANTA	R118
72	11022614	1	RESISTOR 1/4W 1% 2.61 Kohm	MR25	CONSTANTA	R116
73	11022676	2	RESISTOR 1/4W 1% 26.7 Kohm	MR25	CONSTANTA	R74,83
74	11023094	1	RESISTOR 1/4W 1% 3.09 Kohm	MR25	CONSTANTA	R102
75	11023095	4	RESISTOR 1/4W 1% 30.9 Kohm	MR25	CONSTANTA	R47,50,57,133
76	11023245	2	RESISTOR 1/4W 1% 32.4 Kohm	MR25	CONSTANTA	R119,134
77	11023325	1	RESISTOR 1/4W 1% 33.2 Kohm	MR25	CONSTANTA	R108
78	11023574	1	RESISTOR 1/4W 1% 3.57 Kohm	MR25	CONSTANTA	R38
79	11023575	4	RESISTOR 1/4W 1% 35.7 Kohm	MR25	CONSTANTA	R121,135,136,138
80	11023925	1	RESISTOR 1/4W 1% 39.2 Kohm	MR25	CONSTANTA	R130
81	11024224	1	RESISTOR 1/4W 1% 4.22 Kohm	MR25	CONSTANTA	R27
82	11024325	1	RESISTOR 1/4W 1% 43.2 Kohm	MR25	CONSTANTA	R148
83	11024534	1	RESISTOR 1/4W 1% 4.53 Kohm	MR25	CONSTANTA	R51
84	11024535	3	RESISTOR 1/4W 1% 45.3 Kohm	MR25	CONSTANTA	R25,38,69
85	11024753	1	RESISTOR 1/4W 1% 475 ohm	MR25	CONSTANTA	R84
86	11024754	5	RESISTOR 1/4W 1% 4.75 Kohm	MR25	CONSTANTA	R80,81,83,87,107
87	11025115	3	RESISTOR 1/4W 1% 51.1 Kohm	MR25	CONSTANTA	R79,117,139
88	11025364	1	RESISTOR 1/4W 1% 5.36 Kohm	MR25	CONSTANTA	R68
89	11025494	1	RESISTOR 1/4W 1% 5.49 Kohm	MR25	CONSTANTA	R131
90	11025624	1	RESISTOR 1/4W 1% 5.62 Kohm	MR25	CONSTANTA	R56
91	11026043	3	RESISTOR 1/4W 1% 604 ohm	MR25	CONSTANTA	R53,71,72
92	11026044	1	RESISTOR 1/4W 1% 6.04 Kohm	MR25	CONSTANTA	R52
93	11026045	2	RESISTOR 1/4W 1% 60.4 Kohm	MR25	CONSTANTA	R85,126
94	11026184	1	RESISTOR 1/4W 1% 6.18 Kohm	MR25	CONSTANTA	R94
95	11026814	3	RESISTOR 1/4W 1% 6.81 Kohm	MR25	CONSTANTA	R28,98,111
96	11027683	2	RESISTOR 1/4W 1% 768 ohm	MR25	CONSTANTA	R59,132

Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
97	11027885	1	RESISTOR 1/4W 1% 76.8 Kohm	MR25	CONSTANTA	R123
98	11027874	1	RESISTOR 1/4W 1% 7.87 Kohm	MR25	CONSTANTA	R67
99	11028083	1	RESISTOR 1/4W 1% 909 ohm	MR25	CONSTANTA	R122
100	11029535	1	RESISTOR 1/4W 1% 85.3 Kohm	MR25	CONSTANTA	R112
101	11029764	1	RESISTOR 1/4W 1% 9.78 Kohm	MR25	CONSTANTA	R145
102	11041005	3	RESISTOR PATOTA 1/8W 5% 10K	KPLBS103J	ROHM	RN1-RN3
103	11061003	1	RESISTOR 2,5W 5% 100 ohm	PR52	CONSTANTA	R48
104	12020105	5	CAP ELETROL 100V 1uF	85200	ICOTRON	C4,50-53
105	12032227	1	CAP ELETROL 18V 220uF	85049	ICOTRON	C95
106	12106108	1	CAP TANTALO 35V 20% 10uF	8900	ICOTRON	C48
107	12108335	4	CAP TANTALO 15V 20% 3.3uF	8900	ICOTRON	C36,62,78,79
108	12204103	2	CAP CERAMICO 10nF	GSR 606-FA	THOMSON	C7,56
109	12214472	1	CAP CERAMICO 500V 20% 4700pF	GLX608FA	THOMSON	C5
110	12215223	3	CAP CERAMICO 25V+80% 22nF	GFO-8808FA	THOMSON	C63,70,71
111	12240104	12	CAP CER MULT 63V+80% 100nF	UDW905FAAC4	THOMSON	C1-3,6,8,9,17-18,21-23
112	12240104	11	CAP CER MULT 63V+80% 100nF	UDW905FAAC4	THOMSON	C39-43,45-47,54,57,58
113	12240104	12	CAP CER MULT 63V+80% 100nF	UDW905FAAC4	THOMSON	C64-69,73,77,93,94,96,97
114	12240104	6	CAP CER MULT 63V+80% 100nF	UDW905FAAC4	THOMSON	C25,26,31,32,35,37
115	12251880	1	CAP CER NPO 100V 10% 88pF	PEC807FAAC4	THOMSON	C55
116	12252101	1	CAP CER XSP 100V 10% 100pF	PEB804FAAC4	THOMSON	C20
117	12305104	1	CAP POLIESTER 100V 10% 100nF	5450	ICOTRON	C78
118	12305105	1	CAP POLIESTER 100V 10% 1uF	5450	ICOTRON	C49
119	12305224	1	CAP POLIESTER 100V 10% 220nF	5450	ICOTRON	C44
120	12403332	15	CAP POLIESTIRENO 1% 3300pF	605	ROHM	C59-61,80-87,89-92
121	13010010	1	OSCILADOR 23961.8 KHz 100ppm	K1100AM	MOTOROLA	Y1
122	15000010	1	RELE 24VCC	MCH2RC3	METALTEX	RL1
123	20001081	8	DIODO ZENER 5% 5V1 20MA	1N751A	MOTOROLA	D1,4,7,8,10,11
124	20001141	1	DIODO ZENER 5% 12V 20MA	1N759A	MOTOROLA	D8
125	20002002	12	DIODO DE SINAL	1N4148	MOTOROLA	D2,3,5,9,12-19
126	20005001	1	PONTE RETIFICADORA 1,2A SKB	1,2/4	SEMIKRON	PD1
127	21000202	5	LED RETANGULAR 1x5 VERMELHO	SLB-15VR-3	ROHM	OTR,RTS,AUX,SUBVEL,TFN
128	21000202	5	LED RETANGULAR 1x5 VERMELHO	SLB-15VR-3	ROHM	OTX,ORX,CTS,OCD,OSR

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Tecnologia

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TITULO
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RT27

RL 05020302

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MAGINA

DESCRIÇÃO

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RESP.

Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
129	21000204	1	LED RETANGULAR 1x5 AMARELO	SLB-15YY-3	ROHM	ALIM
130	21000205	1	LED RETANGULAR 1x5 VERDE	SLB-15MG-3	ROHM	TESTE
131	22000101	5	TRANSISTOR NPN	BC547A	IBRAPE	Q2,4,5,7,8
132	22000201	3	TRANSISTOR PNP	BC557A	IBRAPE	Q1,3,6
133	22000501	1	REGULADOR -5V 1.0A TO-220	uA7805UC	FAIRCHILD	Q9
134	22001201	2	TRANSISTOR FET CANAL N	2N4058	NATIONAL	Q10,11
135	24010004	1	6 INVERSORES	SN74LS04N	TEXAS	U12
136	24010008	1	4 AND:2	SN74LS08N	TEXAS	U27
137	24010014	1	6 INVERSORES SCHMITT TRIGGERS	SN74LS14N	TEXAS	U5
138	24010032	2	4 OR:2	SN74LS32N	TEXAS	U26,29
139	24010139	1	2 DECOD. 2 pra 4	SN74LS139N	TEXAS	U28
140	24010157	1	4 MUX 2 pra 1	SN74LS157N	TEXAS	U14
141	24010164	3	SHIFT 8 BITS	SN74LS164N	TEXAS	U8,17,39
142	24010165	1	SHIFT 8 BITS	SN74LS165N	TEXAS	U9
143	24010393	2	2 CONTADOR:16	SN74LS393N	TEXAS	U18,53
144	24020010	1	3 NAND:3	SN74ALS10M	TEXAS	U50
145	24020074	2	2 FLIP-FLOP D	SN74ALS74N	TEXAS	U42,43
146	24050245	2	8 BUS TRANSCEIVER 3state	SN74HCT245N	TEXAS	U11,37
147	24050373	2	8 LATCHES D 3state	SN74HCT373N	TEXAS	U8,38
148	25004049	1	8 BUFFERS INVERSORES	CD4049BE	RCA	U4
149	25004050	1	8 BUFFERS	CD4050BE	RCA	U21
150	25004053	3	3 MUX-DEMUX 2 pra 1	CD4053BE	RCA	U13,31,36
151	26000011	2	LINE RECEIVER RS232-C CMOS	DS14C88AN	NATIONAL	U15,25
152	26000021	2	LINE DRIVER RS232-C CMOS	DS14C88N	NATIONAL	U16,22
153	26000030	3	AMPLIFICADOR OPERACIONAL	MC4558CP1	MOTOROLA	U55-57
154	26000030	10	AMPLIFICADOR OPERACIONAL	MC4558CP1	MOTOROLA	U2,19,40,44,45-48,51,52
155	26000060	1	SAMPLE & HOLD	LF398N	NATIONAL	U7
156	26000180	1	FILTRO	MF4CN-50	NATIONAL	U20
157	26000420	1	ACOPLADOR OTICO	TIL 111	TEXAS	U32
158	26000500	1	CONVERSOR A-D	AD7574JN	AN.DEVICES	U10
159	26000510	1	CONVERSOR D-A	NE5018N	SIGNETICS	U41
160	26000531	3	EXPANSOR DE I/O	CMOS MB1C55-5	OKI	U24,30,33

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Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
161	26000541	2	MICROPROCESSADOR CMOS	80C318H-1	INTEL	U23,34
162	26000560	1	AMPLIFICADOR OPERACIONAL	LF356N	NATIONAL	U54
163	26000631	1	MODULADOR 4800 BPS	TX 0831	RHEDE	U49
164	26000641	1	DEMULADOR 4800 BPS	RX 0841	RHEDE	U3
165	39004003	1	ETIQUETA PREDISPOSICAO RT27	EP39004003	DERPACSILK	Colar no suporte
166	39004100	1	Adesivo painel Rhede	EP39004100	DERPACSILK	Painel frontal
167	39004103	1	Adesivo painel RT27 vermelho	EP39004103	DERPACSILK	Painel frontal
168	50006202	1	PLACA RT27	Proj. 31	CARTON	Circuito impresso
169	50006401	1	PLACA PAINEL SERIE RT	Proj. 35	CARTON	Montagem dos leds
170	80011203	1	EPROM 00620 G. RT27--TX	R0011203	RHEDE	U35
171	80011303	1	EPROM 00620 G. RT27--RX	R0011303	RHEDE	U1
172	99990010	0	SET : selecionar em teste....			R20 (ajuste U10-2)
173	99990010	0	SET : selecionar em teste....			R23 (ajuste U10-3)
174	99990091	0	Estas posicoes estao vagas ..			C34,38,72,74,75,88
175	99990091	0	Estas posicoes estao vagas ..			C10-16,24,27-30,33

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TecnologiaTÍTULO
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Itm	Codigo	Qtd	Descricao do componente	Ref.Comerc.	Fabricante	Referencia no Circuito
1	03000401	1	MINI SHUNT DOURADO	880584-5	AMP	A
2	03001203	1	PENTE SIMPLES/03 180. E	880150-3	AMP	A
3	03001460	1	PENTE DUPLO/60 180. E	3-880152-0	AMP	J2
4	03001704	1	BORNE 4 CONTATOS	300/x4	JOTO	J8
5	03003503	1	PENTE TRAVA SIMPLES/3 180. Au	A5045-03A3G	MOLEX	J1
6	03003904	1	PENTE 4 POLOS SL 4 PA vert.	1111.6	CONEXEL	J3
7	03007001	1	CONECTOR FEMEA-D-25 solda pia	DK1-25-S-7	KONO	J4
8	03008706	1	PENTE POLARIZ SIMPLES-06	626427-6	AMP	J5
9	05002001	2	CENTELHADOR GAS TRIPOLAR	PTT-46N-A1	ELMA	PL1,2
10	05003001	4	SUPRESSOR DE TRANSIENTE	VZB130	THOMSON	VR1-4
11	06000308	3	PARAFUSO M3 PAN PHIL N.1 6mm	M3x6	LIPOS	Q1-3
12	07001001	3	ESPACADOR PARA TRANSISTOR	50/38x28x25	SWISSBRAS	Q1-Q3
13	07001101	3	ISOLANTE DE MICA	041.08.005-	SWISSBRAS	Q1-Q3
14	08000205	1	DISSIPADOR 3x10220 RT	EP08000205	ALLFLEX	Q1-3
15	12002228	2	CAP ELETROL 25V 2200uF	85048	ICOTRON	C3,4
16	12003108	2	CAP ELETROL 50V 1000uF	85048	ICOTRON	C1,2
17	12108105	2	CAP TANTALO 35V 20% 1uF	8900	ICOTRON	C5,6
18	12108226	1	CAP TANTALO 15V 20% 22uF	8900	ICOTRON	C7
19	20003002	4	DIODO DE RETIFICACAO 100V	1N4002	MOTOROLA	D1-4
20	20008031	2	DIODO DE RETIFICACAO 100V 3A	SK3/1	SEMIKRON	D5,6
21	22000401	1	REGULADOR +12V .5A T0-220	uA78M12UC	FAIRCHILD	Q2
22	22000601	1	REGULADOR -12V 1.0A T0-220	uA7912UC	FAIRCHILD	Q3
23	22001501	1	REGULADOR +5V 1.0A T0-220	uA7805UC	FAIRCHILD	Q1
24	50006704	1	PLACA FONTE SERIE RT	Proj. 35	CARTON	Circuito Impresso

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CARTÃO FONTE RT

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