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Bill of Materials for CGS757 - Bi-N-Tic Full Kit V1.6

Main [CGS757 - Bi-N-Tic Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Capacitor - Wire Link	1	C101	RAD-0.2N
2	100pF 5% Ceramic	1	C217	RAD-0.2N
3	47nF 63V Polyseter	16	C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212,	RAD-0.2
			C213, C214, C215, C216	
4	100nF Ceramic	7	C305, C306, C307, C308, C309, C310, C311	RAD-0.2N
5	1uF 35V Tantalum	2	C303, C304	RB-D5.0-P5.0
6	10uF 35V Electrolytic	2	C301, C302	RB-D5.0-P2.0
	CONNECTOR			
7	14-pin IC Socket 0.3inch	2	U101, U204	DIP-14
8	IDC16 Receptacle	3	J101, J201, J202	2.54MM
9	14-pin Wirewrap IC Socket 0.3inch	1	ASM1	DIP-14
10	IDC16 Box Header	1	J301	2.54MM
11	16-pin IC Socket 0.3inch	2	U202, U203	DIP-16
	DIODE			
12	1N4148	1	D101	DIODE-0.3
	HARDWARE			
13	M3 x 20mm Bolt PH	4	ASM1A, ASM1B, ASM1C, ASM1D	-
14	M3 Nut	4	ASM1A, ASM1B, ASM1C, ASM1D	-
15	M3 x 12mm Nylon Spacer Threaded	4	ASM1A, ASM1B, ASM1C, ASM1D	-
	LINEAR			
16	TL074 Quad JFET Opamp	1	U204	DIP-14
	INDUCTOR			
17	Ferrite Bead - 5A	2	L301, L302	AXIAL-0.3
	LOGIC			
18	CD4051 - Single 8-channel Multiplexer	2	U202, U203	DIP-16

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ASM VCO Core Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	18pF 5% Ceramic	1	C203	RAD-0.2N
2	100pF 5% Ceramic	2	C201, C204	RAD-0.2N
3	2200pF 2.5% Polystyrene	1	C202	AXIAL-0.6
4	100nF Ceramic	4	C301, C302, C303, C304	RAD-0.2N
5	100nF 63V Polyester	1	C101	RAD-0.2
6	1uF 35V Tantalum	2	C305, C306	RB-D5.0-P5.0
	CONNECTOR			
7	14-pin IC Socket 0.3inch	1	U101	DIP-14
8	8-pin IC Socket 0.3inch	2	Q201, U202	DIP-8
9	1x2 Pin 9mm Header	1	JP100	2.54MM
10	Strip Line Header - 7-way	2	J1A, J1B	SIL-7
11	8-pin Wirewrap IC Socket 0.3inch	1	U201 NB: See modification	-
12	Jumper Shunt	1	JP100	2.54MM
	DIODE			
13	Do Not Fit	4	D301, D302, D303, D304	-
14	1N4148	2	D201, D202	DIODE-0.3
	LINEAR			
15	LM337LZ - Adjustable Negative Voltage Regulator	1	U302	TO-92
16	CA3140 Opamp	1	U201	DIP-8
17	LT1014 - Quad Low-drift Opamp	1	U101	-
18	LM317LZ - Adjustable Positive Voltage Regulator	1	U301	TO-92
19	LM311 - Comparator	1	U202	DIP-8
	RESISTOR			
20	TEMPCO - PT146 1K 3500ppm	1	Q201	AXIAL-0.5
21	Do Not Fit	2	R302, R305	-
22	Wire Link	1	NB: See modification	TO FIT
23	47R 1% 0.5W Metal Film	1	R108	AXIAL-0.4

ASM VCO Core Component Kit

Item	Description	Qty	Designator	Package
	RESISTOR - continued			
24	240R 1% 0.5W Metal Film	2	R303, R306 NB: R303 - See Build Guide	AXIAL-0.4
25	680R 1% 0.5W Metal Film	1	R204	AXIAL-0.4
26	1K4 1% 0.5W Metal Film	2	R301, R304	AXIAL-0.4
27	3K3 1% 0.5W Metal Film	1	R206	AXIAL-0.4
28	10K 1% 0.5W Metal Film	3	R110, R202, R207	AXIAL-0.4
29	13K 1% 0.5W Metal Film	1	R208	AXIAL-0.4
30	15K 1% 0.5W Metal Film	2	R105, R205	AXIAL-0.4
31	47K 1% 0.5W Metal Film	1	R203	AXIAL-0.4
32	56K 1% 0.5W Metal Film	1	R107	AXIAL-0.4
33	68K 1% 0.5W Metal Film	1	R209	AXIAL-0.4
34	91K 1% 0.5W Metal Film	2	R106, R111	AXIAL-0.4
35	100K 1% 0.5W Metal Film	4	R101, R102, R112, R210 NB: R102 - See Build Guide	AXIAL-0.4
36	100K 0.1% Metal Film	1	R104	AXIAL-0.4
37	887K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
38	1M0 1% 0.5W Metal Film	2	R109, R113 NB: R113 - J1_2 - J1_5	AXIAL-0.4
39	1M5 1% 0.5W Metal Film	1	R103 NB: See Build Guide	AXIAL-0.4
	TRANSISTOR			
40	2N3904 NPN Transistor	1	Q203	TO-92
41	J108 JFET	1	Q202	TO-92
42	LS312 - Dual Matched NPN Transistors	1	Q201 NB: Marked as LS31F	DIP-8
	TRIMPOT			
43	200R MTV Cermet	2	P301, P302	T93YA
44	10K MTV Cermet	1	P101	T93YA
45	50K MTV Cermet	1	P201	T93YA
46	100K MTV Cermet	1	P100	T93YA

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