

CGS348 - Full VCO Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	18pF 5% Ceramic	1	C202	RAD-0.2N
2	68pF 5% Ceramic	1	C301	RAD-0.2N
3	82pF 5% Ceramic	2	C403, C404	RAD-0.2N
4	100pF 5% Ceramic	3	C203, C204, C504	RAD-0.2N
5	220pF 5% Ceramic	1	C503	RAD-0.2N
6	330pF 5% Ceramic	1	C501	RAD-0.2N
7	2200pF 2.5% Polystyrene	1	C201	AXIAL-0.6
8	4n7 63V Polyester	1	C502	RAD-0.2
9	100nF Ceramic	5	C101, C603, C604, C605, C606	RAD-0.2N
10	4.7uF 25V Electrolytic	2	C401, C402	RB-D5.0-P2.0
11	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
12	47uF Electrolytic	1	C405	RB-D5-P2.5
	CONNECTOR			
13	8-pin IC Socket 0.3inch	6	Q201, U101, U102, U201, U202, U301	DIP-8
14	CRIMP - KK254	3	J601^3	-
15	14-pin IC Socket 0.3inch	1	U401	DIP-14
16	3-way 0.1inch Crimp Housing	1	J601	2.54MM
17	1x2 Pin 9mm Header	2	JP1, JP2	2.54MM
18	Jumper Shunt	2	JP1, JP2	2.54MM
19	3-way 0.1inch Straight Header	1	J601	2.54MM
	DIODE			
20	1N4148	13	D101, D102, D103, D201, D401, D402, D403, D404, D405, D501, D502, D503, D504	DIODE-0.3
	LINEAR			
21	CA3140 Opamp	1	U201	DIP-8
22	LM3900 - Quad Norton Amplifier	1	U401	DIP-14
23	LM337LZ - Adjustable Negative Voltage Regulator	1	U602	TO-92
24	LM317LZ - Adjustable Positive Voltage Regulator	1	U601	TO-92

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Item	Description	Qty	Designator	Package
	LINEAR - continued			
25	TL072 Dual JFET Opamp	3	U101, U102, U301	DIP-8
26	LM311 - Comparator	1	U202	DIP-8
	INDUCTOR			
27	Ferrite Bead - 0.45uH 7A	2	L601, L602	AXIAL-0.3
	RESISTOR			
28	Do Not Fit	1	LK1	-
29	TEMPCO - PT146 1K 3500ppm	1	Q201	AXIAL-0.5
30	47R 1% 0.5W Metal Film	1	R122	AXIAL-0.4
31	240R 1% 0.5W Metal Film	2	R602, R604	AXIAL-0.4
32	330R 1% 0.5W Metal Film	5	R304, R413, R415, R417, R511	AXIAL-0.4
33	470R 1% 0.5W Metal Film	1	R308	AXIAL-0.4
			NB: R308 - See modification	
34	680R 1% 0.5W Metal Film	1	R202	AXIAL-0.4
35	820R 1% 0.5W Metal Film	1	R107	AXIAL-0.4
36	1K0 1% 0.5W Metal Film	2	R305, R406	AXIAL-0.4
37	1K5 1% 0.5W Metal Film	5	R307, R508, R509, R601, R603	AXIAL-0.4
			NB: R307 - See modification	
38	2K2 1% 0.5W Metal Film	1	R505	AXIAL-0.4
39	3K3 1% 0.5W Metal Film	1	R208	AXIAL-0.4
40	10K 1% 0.5W Metal Film	6	R106, R204, R206, R405, R412, R414	AXIAL-0.4
41	13K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
42	15K 1% 0.5W Metal Film	2	R118, R203	AXIAL-0.4
43	22K 1% 0.5W Metal Film	1	R408	AXIAL-0.4
44	30K 1% 0.5W Metal Film	2	R418, R419	AXIAL-0.4
			NB: See modification	
45	33K 1% 0.5W Metal Film	2	R403, R411	AXIAL-0.4
46	47K 1% 0.5W Metal Film	3	R105, R205, R506	AXIAL-0.4
47	56K 1% 0.5W Metal Film	1	R120	AXIAL-0.4
48	91K 1% 0.5W Metal Film	1	R119	AXIAL-0.4

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Item	Description	Qty	Designator	Package
	RESISTOR - continued			
49	100K 0.1% Metal Film	1	R112	AXIAL-0.4
50	100K 1% 0.5W Metal Film	17	R101, R102, R103, R104, R108, R110, R113, R114, R115, R116, R301, R303, R306, R416, R503, R512, R513	AXIAL-0.4
51	200K 1% 0.5W Metal Film	1	R111	AXIAL-0.4
52	220K 1% 0.5W Metal Film	1	R302	AXIAL-0.4
53	330K 1% 0.5W Metal Film	3	R117, R401, R404	AXIAL-0.4
54	510K 1% 0.5W Metal Film	1	R109	AXIAL-0.4
55	887K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
56	1M0 1% 0.5W Metal Film	3	R501, R504, R507	AXIAL-0.4
57	1M5 1% 0.5W Metal Film	3	R402, R409, R410	AXIAL-0.4
58	4M7 1% 0.5W Metal Film	1	R407	AXIAL-0.4
59	10M 1% 0.5W Metal Film	1	R502	AXIAL-0.4
60	22M 5% 0.25W Metal Glazed	1	R510	AXIAL-0.4
	TRANSISTOR			
61	2N3904 NPN Transistor	1	Q401	TO-92
62	J108 JFET	1	Q202	TO-92
63	LS312 - Dual Matched NPN Transistors	1	Q201	DIP-8
			NB: Marked as LS31F	
	TRIMPOT			
64	10K 25TV Cermet	1	P106	T93YA
65	20K 25TV Cermet	2	P401, P502	T93YA
66	50K 25TV Cermet	1	P201	T93YA
67	100K 20TV Cermet	2	P103, P105	T93YA
68	200K 25TV Cermet	1	P301	T93YA
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