

CGS348 - Compact VCO Component Kit

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	Do Not Fit	1	C504	-
2	18pF 5% Ceramic	1	C202	RAD-0.2N
3	68pF 5% Ceramic	1	C301	RAD-0.2N
4	82pF 5% Ceramic	2	C403, C404	RAD-0.2N
5	100pF 5% Ceramic	2	C203, C204	RAD-0.2N
6	220pF 5% Ceramic	1	C503	RAD-0.2N
7	330pF 5% Ceramic	1	C501	RAD-0.2N
8	2200pF 2.5% Polystyrene	1	C201	AXIAL-0.6
9	4n7 63V Polyester	1	C502	RAD-0.2
10	100nF Ceramic	5	C101, C603, C604, C605, C606	RAD-0.2N
11	4.7uF 25V Electrolytic	2	C401, C402	RB-D5.0-P2.0
12	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
13	47uF Electrolytic	2	C405, C406 NB: C406 Not On PCB	RB-D5-P2.5
	CONNECTOR			
14	3-way 0.1inch Crimp Housing	1	J601	2.54MM
15	14-pin IC Socket 0.3inch	1	U401	DIP-14
16	CRIMP - KK254	3	J601^3	-
17	Jumper Shunt	2	JP1, JP2	2.54MM
18	3-way 0.1inch Straight Header	1	J601	2.54MM
19	1x2 Pin 9mm Header	2	JP1, JP2	2.54MM
20	8-pin IC Socket 0.3inch	6	Q201, U101, U102, U201, U202, U301	DIP-8
	DIODE			
21	1N4148	11	D101, D102, D103, D201, D401, D402, D403, D404, D405, D502, D503	DIODE-0.3
22	Do Not Fit	2	D501, D504	-
	LINEAR			
23	CA3140 Opamp	1	U201	DIP-8
24	LM337LZ - Adjustable Negative Voltage Regulator	1	U602	TO-92
25	LM317LZ - Adjustable Positive Voltage Regulator	1	U601	TO-92

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	LINEAR - continued			
26	TL072 Dual JFET Opamp	3	U101, U102, U301	DIP-8
27	LM311 - Comparator	1	U202	DIP-8
28	LM3900 - Quad Norton Amplifier	1	U401	DIP-14
	INDUCTOR			
29	Ferrite Bead - 5A	2	L601, L602	AXIAL-0.3
	RESISTOR			
30	Do Not Fit	8	R102, R113, R503, R504, R508, R509, R512, R513	-
31	TEMPCO - PT146 1K 3500ppm	1	Q201	AXIAL-0.5
32	Wire Link	1	LK1	TO FIT
33	47R 1% 0.5W Metal Film	1	R122	AXIAL-0.4
34	240R 1% 0.5W Metal Film	2	R602, R604	AXIAL-0.4
35	330R 1% 0.5W Metal Film	5	R304, R413, R415, R417, R511	AXIAL-0.4
36	470R 1% 0.5W Metal Film	1	R308	AXIAL-0.4
37	680R 1% 0.5W Metal Film	1	R202	AXIAL-0.4
38	820R 1% 0.5W Metal Film	1	R107	AXIAL-0.4
39	1K0 1% 0.5W Metal Film	2	R305, R406	AXIAL-0.4
40	1K5 1% 0.5W Metal Film	3	R307, R601, R603	AXIAL-0.4
41	2K2 1% 0.5W Metal Film	1	R505	AXIAL-0.4
42	3K3 1% 0.5W Metal Film	1	R208	AXIAL-0.4
43	10K 1% 0.5W Metal Film	6	R106, R204, R206, R405, R412, R414	AXIAL-0.4
44	13K 1% 0.5W Metal Film	1	R207	AXIAL-0.4
45	15K 1% 0.5W Metal Film	2	R118, R203	AXIAL-0.4
46	22K 1% 0.5W Metal Film	1	R408	AXIAL-0.4
47	30K 1% 0.5W Metal Film	2	R418, R419 NB: See modification	AXIAL-0.4
48	33K 1% 0.5W Metal Film	2	R403, R411 NB: See modification	AXIAL-0.4
49	47K 1% 0.5W Metal Film	3	R105, R205, R506	AXIAL-0.4
50	56K 1% 0.5W Metal Film	1	R120	AXIAL-0.4
51	91K 1% 0.5W Metal Film	1	R119	AXIAL-0.4
52	100K 0.1% Metal Film	1	R112	AXIAL-0.4

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	RESISTOR - continued			
53	100K 1% 0.5W Metal Film	13	R101, R103, R104, R108, R110, R114, R115, R116, R301, R303, R306, R416, R420 NB: R420 Not On PCB	AXIAL-0.4
54	200K 1% 0.5W Metal Film	1	R111	AXIAL-0.4
55	220K 1% 0.5W Metal Film	1	R302	AXIAL-0.4
56	330K 1% 0.5W Metal Film	3	R117, R401, R404	AXIAL-0.4
57	510K 1% 0.5W Metal Film	1	R109	AXIAL-0.4
58	887K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
59	1M0 1% 0.5W Metal Film	2	R501, R507	AXIAL-0.4
60	1M5 1% 0.5W Metal Film	3	R402, R409, R410 NB: See modification	AXIAL-0.4
61	4M7 1% 0.5W Metal Film	1	R407	AXIAL-0.4
62	10M 1% 0.5W Metal Film	1	R502	AXIAL-0.4
63	22M 5% 0.25W Metal Glazed	1	R510	AXIAL-0.4
	TRANSISTOR			
64	2N3904 NPN Transistor	1	Q401	TO-92
65	J108 JFET	1	Q202	TO-92
66	LS312 - Dual Matched NPN Transistors	1	Q201 NB: Marked as LS31F	DIP-8
	TRIMPOT			
67	10K MTV Cermet	1	P106	T93YA
68	20K MTV Cermet	3	P401, P501, P502 NB: P501 on Compact VCO only	T93YA
69	50K MTV Cermet	1	P201	T93YA
70	100K MTV Cermet	2	P103, P105	T93YA
71	200K MTV Cermet	1	P301	T93YA
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