

CGS48 - 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-0.4
8	4n7 63V Polyester	1	C502	RAD-0.2
9	100nF Ceramic	2	C101, C604	RAD-0.2N
10	100nF 10% Ceramic, X7R	3	C603, C605, C606	RAD-0.1
11	4.7uF 50V Electrolytic	2	C401, C402	RB-D5.0-P2.0
12	10uF 35V Electrolytic	2	C601, C602	RB-D5.0-P2.0
13	47uF Electrolytic	1	C405	RB-D5-P2.5
	CONNECTOR			
14	8-pin IC Socket 0.3inch	6	Q201, U101, U102, U201, U202, U301	DIP-8
15	KK396 - 4-way Crimp Housing	1	J601	3.96MM
16	Crimp - KK396	4	J601^4	-
17	14-pin IC Socket 0.3inch	1	U401	DIP-14
18	KK396 - 4-way Straight - Locking Header	1	J601	-
	DIODE			
19	1N4148	13	D101, D102, D103, D201, D401, D402, D403, D404, D405, D501, D502, D503, D504	DIODE-0.3
20	LM329 6V9 Precision	2	D601, D602	TO-92
	LINEAR			
21	LM3900 - Quad Norton Amplifier	1	U401	DIP-14
22	TL072 Dual JFET Opamp	3	U101, U102, U301	DIP-8
23	CA3140 Opamp	1	U201	DIP-8
24	LM311 - Comparator	1	U202	DIP-8

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	INDUCTOR			
25	Ferrite Bead - 0.45uH 7A	2	L601, L602	AXIAL-0.3
	RESISTOR			
26	TEMPCO - PT146 1K 3500ppm	1	Q201	AXIAL-0.5
27	62R 1% 0.5W Metal Film	1	R122	AXIAL-0.4
			NB: 15ppm	
28	330R 1% 0.5W Metal Film	5	R304, R413, R415, R417, R511	AXIAL-0.4
29	680R 1% 0.5W Metal Film	1	R202	AXIAL-0.4
30	820R 1% 0.5W Metal Film	1	R107	AXIAL-0.4
31	1K0 1% 0.5W Metal Film	2	R305, R406	AXIAL-0.4
32	1K5 1% 0.5W Metal Film	2	R308, R509	AXIAL-0.4
33	2K1 1% 0.5W Metal Film	1	R307	AXIAL-0.4
34	2K2 1% 0.5W Metal Film	3	R505, R601, R602	AXIAL-0.4
35	3K3 1% 0.5W Metal Film	2	R208, R508	AXIAL-0.4
36	3K9 1% 0.5W Metal Film	1	R206	AXIAL-0.4
37	10K 1% 0.5W Metal Film	6	R106, R204, R207, R405, R412, R414	AXIAL-0.4
38	15K 1% 0.5W Metal Film	2	R118, R203	AXIAL-0.4
39	22K 1% 0.5W Metal Film	1	R408	AXIAL-0.4
40	33K 1% 0.5W Metal Film	2	R403, R411	AXIAL-0.4
41	47K 1% 0.5W Metal Film	3	R105, R205, R506	AXIAL-0.4
42	56K 1% 0.5W Metal Film	1	R120	AXIAL-0.4
43	91K 1% 0.5W Metal Film	1	R119	AXIAL-0.4
44	100K 1% 0.5W Metal Film	19	R101, R102, R103, R104, R108, R110, R111, R112, R113, R114, R115, R116, R117, R301, R306, R416, R503, R512, R513	AXIAL-0.4
45	300K 1% 0.5W Metal Film	1	R303	AXIAL-0.4
46	330K 1% 0.5W Metal Film	2	R401, R404	AXIAL-0.4
47	430K 1% 0.5W Metal Film	1	R302	AXIAL-0.4
48	510K 1% 0.5W Metal Film	1	R109	AXIAL-0.4
49	680K 1% 0.5W Metal Film	1	R201	AXIAL-0.4
50	1M0 1% 0.5W Metal Film	3	R501, R504, R507	AXIAL-0.4
51	1M5 1% 0.5W Metal Film	3	R402, R409, R410	AXIAL-0.4
52	4M7 1% 0.5W Metal Film	1	R407	AXIAL-0.4

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Item	Description	Qty	Designator	Package
53	10M 1% 0.5W Metal Film	1	R502	AXIAL-0.4
54	22M 5% 0.25W Metal Glazed	1	R510	AXIAL-0.4
	TRANSISTOR			
55	LS312 - Dual Matched NPN Transistors	1	Q201	DIP-8
56	2N3904 NPN Transistor	1	Q401	TO-92
57	J108 JFET	1	Q202	TO-92
	TRIMPOT			
58	10K 25TV Cermet	1	P106	T93YA
59	20K 25TV Cermet	2	P401, P502	T93YA
60	100K 20TV Cermet	4	P103, P105, P201, P301	T93YA
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