

CGS513 - VC Wave Multipliers Component Kit

| Item | Description | Qty | Designator | Package |
|------|--------------------------------|-----|---|--------------|
| | CAPACITOR | | | |
| 1 | 33pF 5% Ceramic | 4 | C603, C702, C802, C806 | RAD-0.2N |
| 2 | 47pF 5% Ceramic | 8 | C102, C302, C303, C304, C401, C402, C403, C602 | RAD-0.2N |
| 3 | 150pF 5% Ceramic | 1 | C301 | RAD-0.2N |
| 4 | 47nF 63V Polyseter | 4 | C601, C701, C801, C805 | RAD-0.2 |
| 5 | 100nF Ceramic | 14 | C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916 | RAD-0.2N |
| 6 | 220nF 63V Polyester | 2 | C101, C201 | RAD-0.2 |
| 7 | 1uF 35V Bipolar Electrolytic | 2 | C604, C803 | RB-D6.3-P2.5 |
| 8 | 10uF Bipolar Electrolytic | 1 | C703 | RB-D6.3-P2.5 |
| 9 | 10uF 35V Electrolytic | 2 | C901, C902 | RB-D5.0-P2.0 |
| 10 | 47uF Electrolytic | 1 | C804 | RB-D5-P2.5 |
| | | | | |
| | CONNECTOR | | | |
| 11 | 8-pin IC Socket 0.3inch | 5 | U102, U301, U302, U303, U401 | DIP-8 |
| 12 | 3-way 0.1inch Straight Header | 1 | J901 | 2.54MM |
| 13 | 3-way 0.1inch Crimp Housing | 1 | J901 | 2.54MM |
| 14 | CRIMP - KK254 | 3 | J901^3 | - |
| 15 | 16-pin IC Socket 0.3inch | 1 | U101 | DIP-16 |
| 16 | 14-pin IC Socket 0.3inch | 2 | U501, U701 | DIP-14 |
| | | | | |
| | DIODE | | | |
| 17 | 1N4148 | 22 | D101, D102, D103, D201, D301, D302, D303, D304, D305, D306, D401, D402, D403, D404, D405, D406, D601, D602, D701, D702, D801, D802 | DIODE-0.3 |
| 18 | 4.7V 5% 500mW | 1 | D803 | DIODE-0.3 |
| | | | | |
| | LINEAR | | | |
| 19 | TL072 Dual JFET Opamp | 3 | U302, U303, U401 | DIP-8 |
| 20 | LM13700 - Dual OTA | 1 | U101 | DIP-16 |
| 21 | LM3900 - Quad Norton Amplifier | 2 | U501, U701 | DIP-14 |
| 22 | TL071 JFET Opamp | 2 | U102, U301 | DIP-8 |
| | | | | |

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| | INDUCTOR | | | |
| 23 | Ferrite Bead - 5A | 2 | L901, L902 | AXIAL-0.3 |
| | | | | |
| | RESISTOR | | | |
| 24 | 330R 1% 0.5W Metal Film | 2 | R109, R410 | AXIAL-0.4 |
| 25 | 1K5 1% 0.5W Metal Film | 4 | R105, R107, R204, R208 | AXIAL-0.4 |
| 26 | 3K3 1% 0.5W Metal Film | 2 | R111, R809 | AXIAL-0.4 |
| 27 | 10K 1% 0.5W Metal Film | 2 | R110, R411 | AXIAL-0.4 |
| 28 | 15K 1% 0.5W Metal Film | 1 | R201 | AXIAL-0.4 |
| 29 | 22K 1% 0.5W Metal Film | 1 | R102 | AXIAL-0.4 |
| 30 | 33K 1% 0.5W Metal Film | 6 | R302, R305, R308, R401, R404, R407 | AXIAL-0.4 |
| 31 | 47K 1% 0.5W Metal Film | 1 | R202 | AXIAL-0.4 |
| 32 | 82K 1% 0.5W Metal Film | 1 | R301 | AXIAL-0.4 |
| 33 | 100K 1% 0.5W Metal Film | 21 | R104, R203, R207, R303, R304, R306, R307, R309, R310, R402, R403, R405, R406, R408, R409, R502, R503, R601, R602, R807, R808 | AXIAL-0.4 |
| 34 | 220K 1% 0.5W Metal Film | 2 | R501, R504 | AXIAL-0.4 |
| 35 | 330K 1% 0.5W Metal Film | 4 | R101, R103, R108, R505 | AXIAL-0.4 |
| 36 | 402K 1% 0.5W Metal Film | 1 | R500 NB: See Build Guide | AXIAL-0.4 |
| 37 | 470K 1% 0.5W Metal Film | 1 | R506 | AXIAL-0.4 |
| 38 | 820K 1% 0.5W Metal Film | 3 | R609, R705, R805 | AXIAL-0.4 |
| 39 | 1M0 1% 0.5W Metal Film | 7 | R603, R604, R606, R607, R608, R610, R702 | AXIAL-0.4 |
| 40 | 1M5 1% 0.5W Metal Film | 1 | R706 | AXIAL-0.4 |
| 41 | 2M2 1% 0.5W Metal Film | 4 | R605, R701, R801, R806 | AXIAL-0.4 |
| 42 | 3M3 1% 0.5W Metal Film | 2 | R106, R206 | AXIAL-0.4 |
| 43 | 6M8 1% 0.5W Metal Film | 1 | R205 | AXIAL-0.4 |
| 44 | 10M 1% 0.5W Metal Film | 4 | R703, R704, R803, R804 | AXIAL-0.4 |
| | | | | |
| | TRANSISTOR | | | |
| 45 | BC557B PNP Transistor | 2 | Q101, Q201 | TO-92 |
| | | | | |
| | TRIMPOT | | | |
| 46 | 100K 20TV Cermet | 2 | P102, P202 | T93YA |
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