

## VCO

| #  | Reference  | Description            | Value | Ordering #                  |
|----|--|------------------------|-------|-----------------------------|
| 1  | C1   | Electrolitic capacitor | 220U  | 220U/25V                    |
| 1  | C14  | Capacitor              | 2n2   | 2.2n/50V                    |
| 13 | C2 C4 C9 C10 C11<br>C12 C13 C17 C18<br>C19 C20 C24 C25 | Capacitor              | 100n  | 100n/50V                    |
| 2  | C22 C26  | Capacitor              | 1n    | 1n/50V                      |
| 1  | C23  | Capacitor              | 1n8   | 1.8n/50V                    |
| 1  | C28  | Variable capacitor     | 22p   | 22p trimmer                 |
| 6  | C3 C6 C15 C16 C21<br>C27                               | Electrolitic capacitor | 100U  | 100U/25V                    |
| 2  | C5 C7  | Capacitor              | 220p  | 220p/50V                    |
| 1  | C8   | Capacitor              | 100p  | 100p/50V                    |
| 2  | D1 D2  | Varicap                | 1S558 | 1S558 or other 50pF varicap |
| 4  | H1 H2 H3 H4  | Mounting hole          | 3mm   | not a placable part         |
| 2  | J1 J3  | Single row connector   | -     | 2 pin header 2.54mm pitch   |
| 4  | J2 J4 J5 J6  | SMA connector          | -     | SMA for PCB edge mount      |
| 1  | L1   | Inductor               | 12U   | 12UH                        |
| 2  | L2 L3  | Inductor               | 2U7   | 2.7UH                       |
| 5  | Q1 Q2 Q3 Q4 Q5   | Transistor             | BC547 | BC547                       |
| 1  | R1   | Resistor               | 100k  | 100k 1% 0.25W               |
| 4  | R6 R11 R20 R24   | Resistor               | 47R   | 47R 1% 0.25W                |
| 1  | R12  | Resistor               | 330R  | 330R 1% 0.25W               |
| 2  | R2 R13   | Resistor               | 1k    | 1k 1% 0.25W                 |
| 1  | R23  | Resistor               | 560R  | 560R 1% 0.25W               |
| 1  | R3   | Resistor               | 4k7   | 4k7 1% 0.25W                |
| 6  | R4 R5 R14 R15 R18<br>R19                               | Resistor               | 10k   | 10k 1% 0.25W                |
| 3  | R7 R16 R21   | Resistor               | 12R   | 12R 1% 0.25W                |
| 3  | R8 R17 R22   | Resistor               | 120R  | 120R 1% 0.25W               |
| 2  | R9 R10   | Resistor               | 18k   | 18k 1% 0.25W                |