

Bill of Materials for ES33 - VCFQ [4mm] Full Kit P0.0
Column 1 [ES33 - VCFQ Component Kit]

| Item | Description | Qty | Designator | Package |
|----------------------|--------------------------|-----|------------------------------|--------------|
| CAPACITOR | | | | |
| 1 | 47pF 5% Ceramic | 2 | C103, C104 | RAD-0.2N |
| 2 | 220pF 5% Ceramic | 2 | C102, C105 | RAD-0.2N |
| 3 | 1nF 63V Polyester | 1 | C101 | RAD-0.2 |
| 4 | 10uF 35V Electrolytic | 2 | C1, C4 | RB-D5.0-P2.0 |
| CONNECTOR | | | | |
| 5 | IDC10 RA Box Header | 1 | J103 | - |
| 6 | 14-pin IC Socket 0.3inch | 1 | U101 | DIP-14 |
| 7 | 1x4 Pin 16mm Header | 2 | J101, J104 | - |
| 8 | IDC10 Box Header | 1 | J3 | 2.54MM |
| DIODE | | | | |
| 9 | 1N4148 | 5 | D101, D102, D103, D104, D105 | DIODE-0.3 |
| LINEAR | | | | |
| 10 | TL074 Quad JFET Opamp | 1 | U101 | DIP-14 |
| INDUCTOR | | | | |
| 11 | Ferrite Bead - 5A | 2 | L1, L2 | AXIAL-0.3 |
| POTENTIOMETER | | | | |
| 12 | 50KB LIN - 18T Spline | 3 | P101, P102, P103 | ALPHA 16MM |
| RESISTOR | | | | |
| 13 | Do Not Fit | 1 | R121 | - |
| 14 | 330R 1% 0.5W Metal Film | 2 | R112, R120 | AXIAL-0.4 |
| 15 | 1K0 1% 0.5W Metal Film | 1 | R102 | AXIAL-0.4 |
| 16 | 2K0 1% 0.5W Metal Film | 1 | R114 | AXIAL-0.4 |
| 17 | 15K 1% 0.5W Metal Film | 2 | R111, R119 | AXIAL-0.4 |
| 18 | 22K 1% 0.5W Metal Film | 2 | R116, R117 | AXIAL-0.4 |
| 19 | 47K 1% 0.5W Metal Film | 3 | R101, R110, R113 | AXIAL-0.4 |

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Column 2 [ES33 - VCFQ Component Kit]

| Item | Description | Qty | Designator | Package |
|----------------------|-----------------------------|-----|------------------------------------|------------|
| CAPACITOR | | | | |
| 1 | Do Not Fit | 1 | C204 | - |
| 2 | 22pF 10% Ceramic | 2 | C205, C206 | RAD-0.2N |
| 3 | 220pF 2.5% Polystyrene | 2 | C202, C208 | AXIAL-0.4W |
| 4 | 100nF Ceramic | 5 | C1, C2, C3, C4, C5 | RAD-0.2N |
| 5 | 100nF 63V Polyester | 3 | C201, C203, C207 | RAD-0.2 |
| CONNECTOR | | | | |
| 6 | IDC10 RA Box Header | 1 | J207 | - |
| 7 | 8-pin IC Socket 0.3inch | 1 | U201 | DIP-8 |
| 8 | 1x8 Pin Receptacle | 3 | GC1, GC2, GC3 | 2212S |
| 9 | 1x4 Pin 16mm Header | 3 | J202, J204, J2062 | - |
| 10 | 2x3 Open Pin Header | 1 | S201 | 2.54MM |
| DIODE | | | | |
| 11 | 5.1V 5% 500mW | 2 | D201, D202 NB: See Build Guide | DIODE-0.3 |
| HARDWARE | | | | |
| 12 | M2.5 x 12mm Spacer Threaded | 3 | GC1, GC2, GC3 | - |
| 13 | M2.5 x 6mm Pan Head Bolt | 6 | GC1^2, GC2^2, GC3^2 | - |
| LINEAR | | | | |
| 14 | LM358 - Dual Opamp | 1 | U201 | DIP-8 |
| POTENTIOMETER | | | | |
| 15 | 50KB LIN - 18T Spline | 1 | P201 | ALPHA 16MM |
| RESISTOR | | | | |
| 16 | 330R 1% 0.5W Metal Film | 4 | R203, R204, R205, R213 | AXIAL-0.4 |
| 17 | 47K 1% 0.5W Metal Film | 3 | R206, R210, R212 | AXIAL-0.4 |
| 18 | 100K 1% 0.5W Metal Film | 6 | R201, R202, R207, R208, R209, R211 | AXIAL-0.4 |
| 19 | 182K 1% 0.5W Metal Film | 1 | R214 | AXIAL-0.4 |

