SCULLCOM HOBBY ELECTRONICS

5 VOLT PRECISION VOLTAGE REFERENCE
UPGRAGE TO GIVE 100mV, 1V, 5V & 10V OUTPUT

PARTS LIST

1 x Intersil ISL21009BFB850Z, Precision 5V Voltage Reference ±0.5mV 3ppm/ºC. (SMD, SOIC8 Package)

1 x LT1026 (Linear Technology) - (SMD, SOIC8 Package)

1 x INA105 (Texas Instruments) - (SMD, SOIC8 Package)

1 x IRF9630 - 'P' Channel MOSFET

1 x 2N3904 - General NPN transistor

2 x 5v6 1.3w Zener Diode

1 x 1N4001 diode (or any general purpose diode)

1 x Kingbright 5mm Red/Green LED Tricolour Clear (Manufacturer Part No: L-59EGC)

5 x 1K ohm Resistors (either 1% or 5%)

1 x 10M ohm Resistor (either 1% or 5%)

2 x 6.19K ohm Resistor (0.1%) – recommend WELWYN RC55Y Series Resistor

3 x 9.09K ohm Resistor (0.1%) – recommend WELWYN RC55Y Series Resistor

2 x 90.9K ohm Resistor (0.1%) – recommend WELWYN RC55Y Series Resistor

2 x 100K ohm Resistor (0.1%) – recommend WELWYN RC55Y Series Resistor

1 x 910K ohm Resistor (0.1%) – recommend WELWYN RC55Y Series Resistor

1 x 100K Trimmer (15 turn) - BOURNS 3006P type or similar

1 x 200K Trimmer (15 turn) - BOURNS 3006P type or similar

1 x 10uF 25V Electrolytic Capacitor

4 x 1uF (25V) Tantulum Capacitor

1 x 10uF (16v or 25V) Tantulum Capacitor

4 x 0.1uF Capacitor.

2 x 0.01uF Capacitor.

2 x 220uH Inductor (small)

1 x miniature 6 x 6mm tactile switch with suitable knob.

1 x Black 4mm Banana Socket

1 x Red 4mm Banana Socket

1 x Yellow 4mm Banana Socket

3 Pole 4 Way Rotary Switch (break before make)

4 x 2 pin SIL

2 x 2 pin SIL Plug

1 x Project Case, ABS, Aluminium Lid Material, 150mm Length, 100mm Width, 60mm (or 50mm) Height.

1 x PP3 Battery Holder with Flying Leads (from Rapid Electronics - Order Code: 18-0163) cost £0.35.