

Hand Held Function Generator Kit Parts List (S10)

(Refer to 'Assembly Layout' drawing for component positioning)

Ref Des	Part Description	Quantity	Notes
BNC1 & BNC2	CONN JACK BNC RT ANG 50 OHM PCB	2	
C1	CAP ELECT 33UF 16V ELECTROLYTIC RAD	1	Electrolytic
C2	CAP 220UF 16V ALUM ELECTROLYTIC RAD	1	Electrolytic
C3,C4	CAP 10UF 16V ALUM ELECTROLYTIC RAD	2	Electrolytic
C5,C8	CAP .10UF 25V CERAMIC +80/-20%	2	Ceramic (104)
C6	CAP 1000PF 50V CERAMIC X7R 10%	1	Ceramic (102)
C7	CAP .010UF 50V CERAMIC X7R 10%	1	Ceramic (103)
C9	CAP 1.0UF 50V CERAMIC X7R 20%	1	Electrolytic or Ceramic (105)
D1	DIODE SCHOTTKY 40V 3A DO-214AB SMC	1	S3L4
D2	DIODE ZENER 500MW 5.1V 5% DO35	1	BZX79-C5V1
D3, D4	LED 470NM ROUND BLUE 3MM	2	Indicator and board lightup
J1, J2	22AWG solid yellow wire - ~60mm	1	Cut 2 pieces to fit PCB footprint
Q1	IC TRANS NPN SS GP 200MA TO-92	1	Transistor for Square Wave (2N3904)
R1	RES 680 OHM 1/4W 5% CARBON FILM	1	
R2	RES 6.8K OHM 1/4W 5% CARBON FILM	1	
R3	RES 5.6K OHM 1/4W 5% CARBON FILM	1	
R4	RES 110K (or 100K) OHM 1/4W5% CF	1	
R5,R6,R12	RES 5.1K OHM 1/4W 5% CARBON FILM	3	
R7	RES 8.2K OHM 1/4W 5% CARBON FILM	1	
R8	TRIMPOT 500K CARBON (504)	1	
R9,R10	POTENTIOMETER 200K CARBON FILM	2	
R11,R14	RES 200 OHM 1/4W 5% CARBON FILM	2	
R13	RES 1.0K OHM 1/4W 5% CARBON FILM	1	LED Resistor
SW1	SWITCH ROCKER SPDT .4VA SLDR LUG	1	
SW2	SWITCH DIP PIANO SEALED 2POS	1	SPST Dual Dip Switch
SW3	SWITCH ROTARY 1.5" 30DEG SP 4POS	1	Frequency Selector Switch
U1	IC CHARGE PUMP DC/DC CONV 8-DIP	1	TC962CPA
U2	IC XR2206 Function Generator	1	
U1S	SOCKET IC OPEN FRAME 8POS .3"	1	
U2S	SOCKET IC OPEN FRAME 16POS .3"	1	
Hammond Case	Hammond Plastic Case, hand held, blue.	1	Includes 4 screws
Battery Clip	Pre-tinned leads - comes inside Case	1	Red = VCC, Black = GND
End Plate	Comes inside Hammond Case	1	
Decal Label	Decal indicating scales	1	Decal sourced out locally
PCB	Printed Circuit Board 6"x6"	1	Single -sided FR4
Battery	9V Battery	1	
Potentiometer Knobs	Press fit knobs with removable indicator cap	2	
Rotary Switch Knob	With indicator line	1	Fixed to shaft with set screw
Screws	#4 - 1/4"	6	PCB mount to chassis
Connection wires	22AWG stranded blue wire - ~150mm - for SW1	2	Connect SW1 to PCB