

**Title: 085 miniDDS Function Generator**

**P/N: 102-08501-00**

**Date: 2011.04.30**

**ECR#:**

Category	Descriptions	Qty/Board	Designator/PCB Location	Type	Remarks
Capacitor	330pF, 0805 (or 0603)	1	C1	SMD	
Capacitor	0.1u, 50V, Y5V, 0805 (or 0603)	11	C6, C7, C8, C16, C17, C22, C23, C11, C18, C19, C27	SMD	
Capacitor	180pF, NPO, 0805 (or 0603)	1	C12	SMD	
Capacitor	22pF, NPO, 0805 (or 0603)	2	C14, C15	SMD	
Capacitor	10uF, Y5V, 0805	1	C26	SMD	
Diode	BAV99, SOT23	1	DN1	SMD	
Diode	1N5819, DO-214AC (SMA)	1	D2	SMD	
Diode	MMBD4148, 0805	6	D3, D4, D5, D6, D8, D9	SMD	
IC	CJ431, SOT23	1	D7	SMD	
IC	MC34063, S08	1	U1	SMD	
IC	LM78L05, SOT89	1	U2	SMD	
IC	LM6172, S08	1	U3	SMD	
IC	X9C102, S08	1	U4	SMD	
IC	ATmega168PA, TQFP32	1	U5	SMD	
IC	ATmega48PA, TQFP32	1	U6	SMD	
IC	TL084, S014	1	U13	SMD	
IC	24C64, S08	1	U14	SMD	
IC	CP2102, MLP-28	1	U15	SMD	
Inductor	330uH, CD53 ( or CD54)	1	L1	SMD	
Res. Network	300R, 5%, 3.2mm X 1.6mm (0603 X 4)	2	RN1, RN3	SMD	
Res. Network	150R, 5%, 3.2mm X 1.6mm (0603 X 4)	2	RN2, RN4	SMD	
Res. trimmer	10K, 3314J	1	POT1	SMD	
Resistor	1K, 1%, 0805 (or 0603)	12	R1, R21, R22, R24, R25, R26, R37, R38, R42, R46, R47, R48	SMD	
Resistor	10K, 5%, 0805 (or 0603)	3	R2, R17, R49	SMD	
Resistor	2K, 1%, 0805 (or 0603)	3	R4, R7, R23	SMD	
Resistor	150R, 1%, 0805 (or 0603)	2	R16, R5	SMD	
Resistor	22R, 1206/0805	1	R6	SMD	
Resistor	100K, 1%, 0805 (or 0603)	1	R8	SMD	
Resistor	475R, 1%, 0805 (or 0603)	10	R9, R10, R11, R12, R27, R28, R31, R32, R33, R36	SMD	
Resistor	0R, 0805 (or 0603)	7	R13, R29, R30, R34, R35,	SMD	
Resistor	56R, 5%, 0805	2	R18, R19	SMD	
Resistor	3K, 1%, 0805 (or 0603)	2	R20, R51	SMD	
Resistor	4.7K, 5%, 0805 (or 0603)	3	R39, R40, R41	SMD	
Capacitor	470uF, 25V, aluminum, $\phi$ 8 X 11mm	2	C3, C4	TH	
Capacitor	100uF, 16V, aluminum, $\phi$ 6 X 7mm	3	C5, C9, C10	TH	
Connector	DC005, $\phi$ 6.3mm, core $\phi$ 2.1mm, black	1	J1	TH	
Connector	BNC, rightangle, PCB mount, white	1	J5	TH	
Connector	MiniUSB B-type, 5 pins	1	J10	TH	
Crystal	20MHz, HCM49S	1	Y1	TH	
LCD	1602A, 16 X 2 LCD character display,	1	LCM1	TH	
Pin Header	5 X 2, 2.54mm pitch	2	J6, J8	TH	
Pin Header	20 X 1, 2.54mm pitch	1	ASSY1	TH	
Switch	DPDT, 7mm X 7mm, latch, PB-22E27T	1	SW1	TH	
Switch	Tact, 6 X 6 X 9mm (LW Switch PN: TC-0108Y)	20	SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21	TH	
Switch	Rotary encoder, 11mm, vert., shaft len. 15mm, w/ pushbutton	1	SW22	TH	Similar to CUI ACZ11BR2E-15KQD
PCB	109-08500-00F	1	PCB1		
Cap	Dia. 5.8mm, len. 7mm (LW Switch PN: KMA01)	1	ASSY2		For SW1

- Notes: 1. Only install components listed in this BOM. Ignore those presented in schematic and PCB but not included in this list.  
 2. Use component values as specified in this BOM only. These values may be different from those shown in schematic.