Power Source

Square Wave Generator

VCC

R7
10Ohms

F1
MF-FSMF050X-2

J1

	VBUS	A9*2
	CC1	A5
	CC2	B5
	GND	A12*2
	SHIELD	S1*4

USB4125-GF-A_REVA2

R4
5.1k

GND

R5
5.1k

GND

R6
1M

GND

GND

VCC

R3
150ohm

IC1

VCC

		TR	2	Q	3	SQUARE_OUTPUT
		R	4	DIS	7	DIS
CV	5	CV		THR	6	THR/TR
	1	GND		V+	8	

GND   LM555D   VCC

R1-POT
20kOhm

C2
22uF

GND

C1
10n

GND

Decade Counter and LEDs

Debug Ports

LED_YELLOW
D10

LED_YELLOW
D9

LED_YELLOW
D8

LED_YELLOW
D7

LED_YELLOW
D6

LED_YELLOW
D5

LED_YELLOW
D4

LED_YELLOW
D3

LED_YELLOW
D2

LED_YELLOW
D1

R2
390Ohms
GND

CARRY_OUT

OUT10

74HC4017_SOIC

GND

12	Q5-9		
11	Q9	GND	8
9	Q8		
6	Q7		
5	Q6	MR	15
1	Q5		
10	Q4	CE	13
7	Q3		
4	Q2	CLK	14
2	Q1		
3	Q0	VCC	16

OUT9
OUT8
OUT7
OUT6
OUT5
OUT4
OUT3
OUT2
OUT1

IC2

GND

SQUARE_OUTPUT

VCC

JP1

VCC
SQUARE_OUTPUT
DIS

1	
2	GND
3	
4	THR/TR
5	
6	CV

PINHD-1X6

JP2

GND
OUT1
OUT3

1	VCC
2	
3	CARRY_OUT
4	
5	OUT2
6	

PINHD-1X6