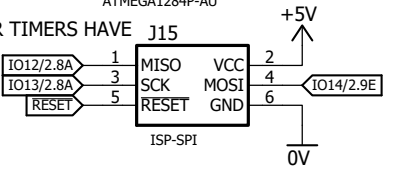


ECS-160-20-3X-TR
16MHZ +/- 30PPM
STABILITY AND TOLERANCE
CRYSTAL CAPACITORS:
15PF = 5PF +
(20PF*20PF)/(20PF+20PF)

NOTE: A CRYSTAL IS USED SO THE AVR TIMERS HAVE
CRYSTAL ACCURACY.

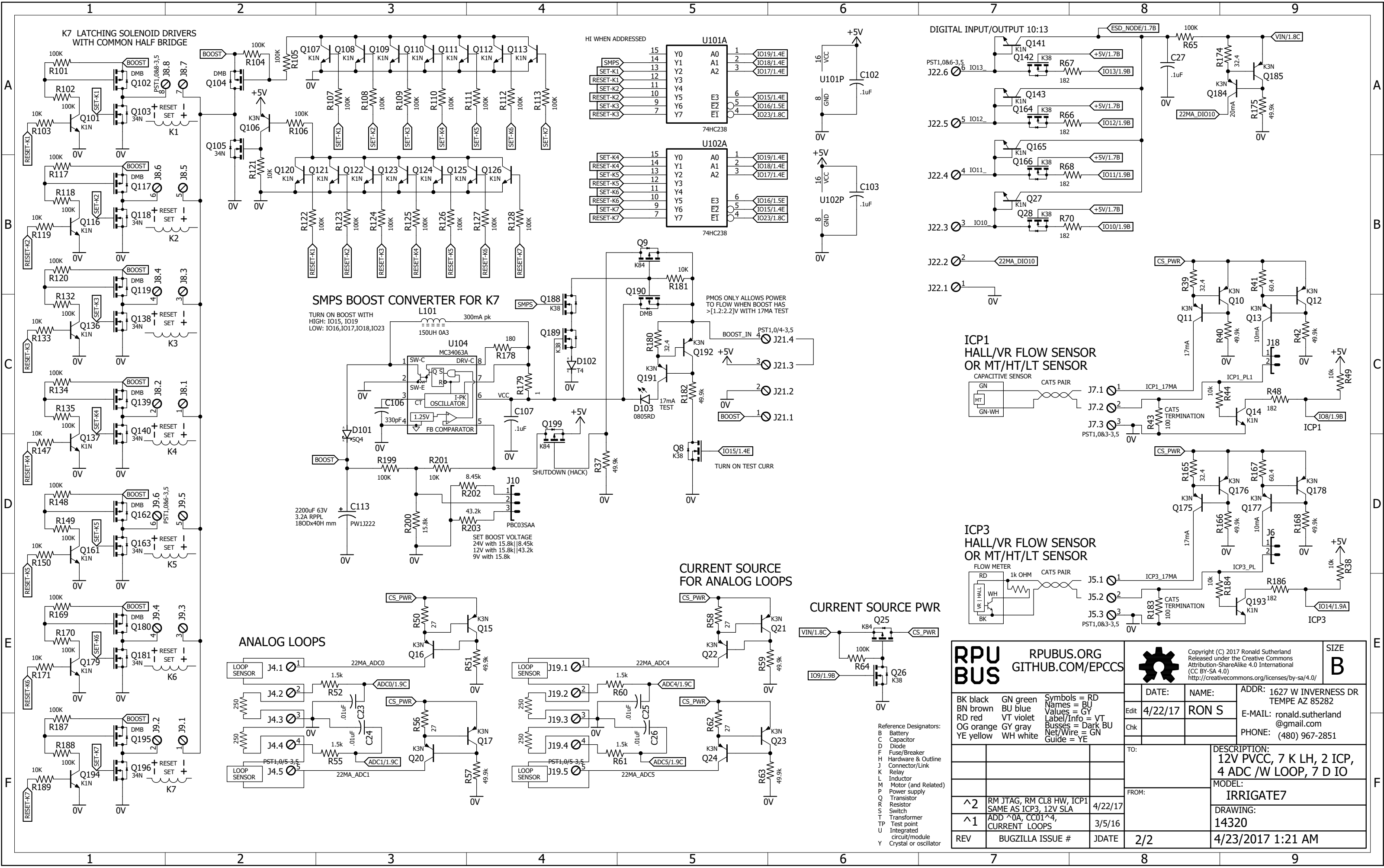


K7 SHCEMATIC IS ON NEXT SHEET

A0	A1	A2	E3	E2	E1	DESC
X	X	X	0V	X	X	ALL DISABLED
X	X	X	5V	X	X	ALL DISABLED
X	X	X	5V	X	X	ALL DISABLED
X	X	X	5V	X	X	ENABLE 17mA
5V	0V	0V	5V	0V	0V	BOOST
0V	5V	0V	5V	0V	0V	SET K1
5V	5V	0V	5V	0V	0V	RESET K1
0V	0V	5V	5V	0V	0V	SET K2
5V	0V	5V	5V	0V	0V	RESET K2
0V	5V	5V	5V	0V	0V	SET K3
5V	5V	5V	5V	0V	0V	RESET K3

PD0 (D 0) RX0
PD1 (D 1) TX0
PD2 (D 2) RX1/INT0
PD3 (D 3) TX0/INT1
PD4 (D 10) OC1B
PD5 (D 9) OC1A
PD6 (D 8) OC2B/ICP1
PD7 (D 11) OC2A

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BK black	GN green	Symbols = RD	Names = BU	Values = GY	Label/Info = VT	
BN brown	BU blue	Busses = Dark BU	Net/Wire = GN	Guide = YE		
RD red	VT violet					
OG orange	GY gray					
YE yellow	WH white					
DATE:	NAME:	ADDR:	1627 W INVERNESS DR TEMPE AZ 85282			
4/22/17	RON S	E-MAIL:	ronald.sutherland@gmail.com			
Chk		PHONE:	(480) 967-2851			
TO:		DESCRIPTION:		12V PVCC, 7 K LH, 2 ICP, 4 ADC /W LOOP, 6 D IO		
FROM:		MODEL:		IRRIGATE7		
REV		DRAWING:		14320		
BUGZILLA ISSUE #		JDATE		4/23/2017 1:21 AM		
		1/2				



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BK black BN brown RD red OG orange YE yellow		GN green BU blue VT violet GY gray WH white		Symbols = RD Names = BU Values = GY Label/info = VT Busses = Dark BU Net/Wire = GN Guide = YE		
DATE:		NAME:		ADDR: 1627 W INVERNESS DR TEMPE AZ 85282		
Edit 4/22/17		RON S		E-MAIL: ronald.sutherland@gmail.com		
Chk				PHONE: (480) 967-2851		
TO:				DESCRIPTION: 12V PVCC, 7 K LH, 2 ICP, 4 ADC /W LOOP, 7 D IO		
FROM:				MODEL: IRRIGATE7		
DRAWING: 14320		4/22/17		3/5/16		
REV		BUGZILLA ISSUE #		JDATE		4/23/2017 1:21 AM