

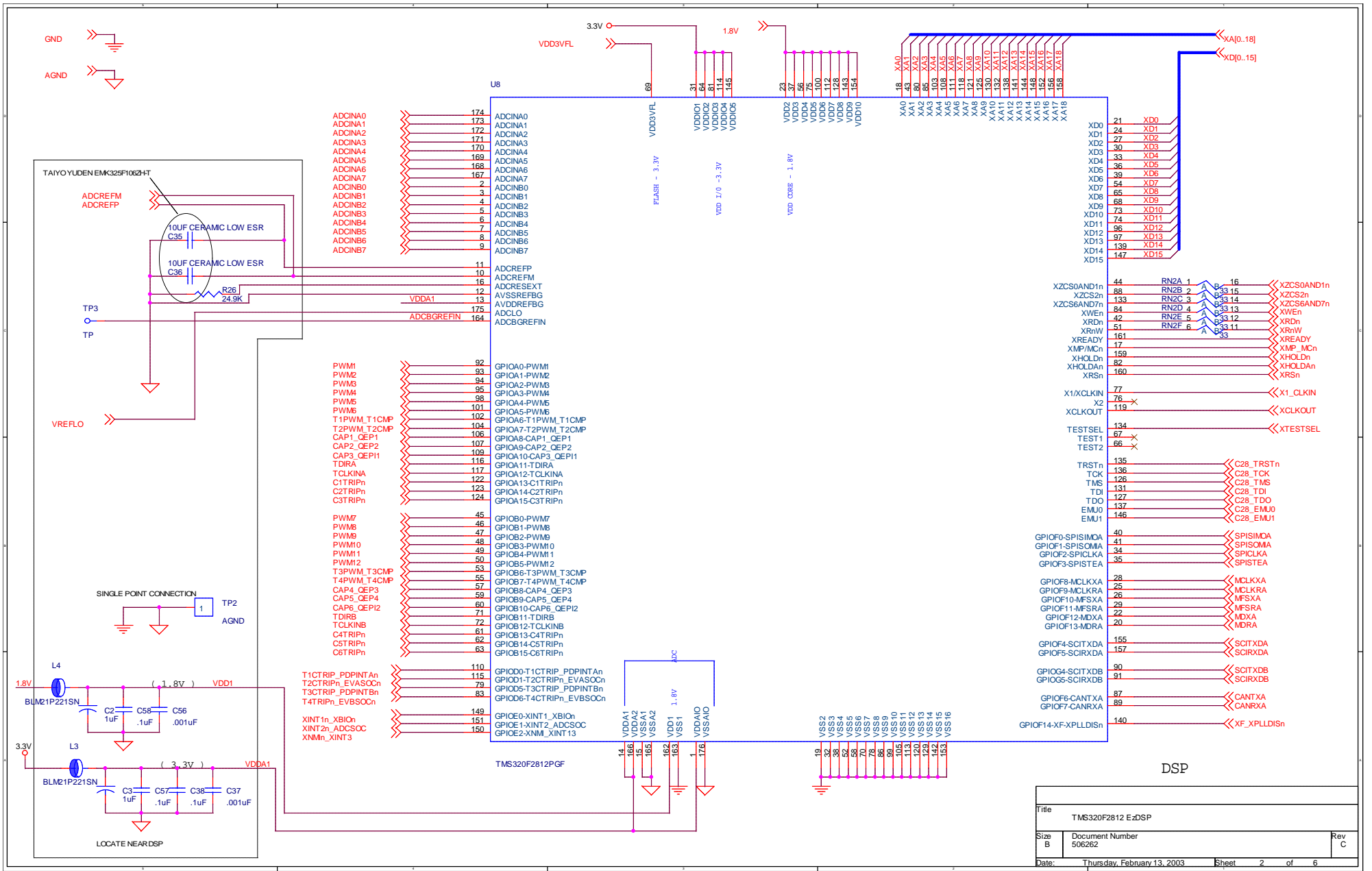
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PROTOTYPES	04-April-2002	
B	PRODUCTION RELEASE	07-June-2002	
C	UPDATE PER SPRS174G	20-Jan-2003	

The TMS320F2812 EzDSP design is based on preliminary information (SPRS174G) for the TMS320F2812 device. This schematic is subject to change without notification. Spectrum Digital Inc. assumes no liability for applications assistance, customer product design or infringement of patents described herein.

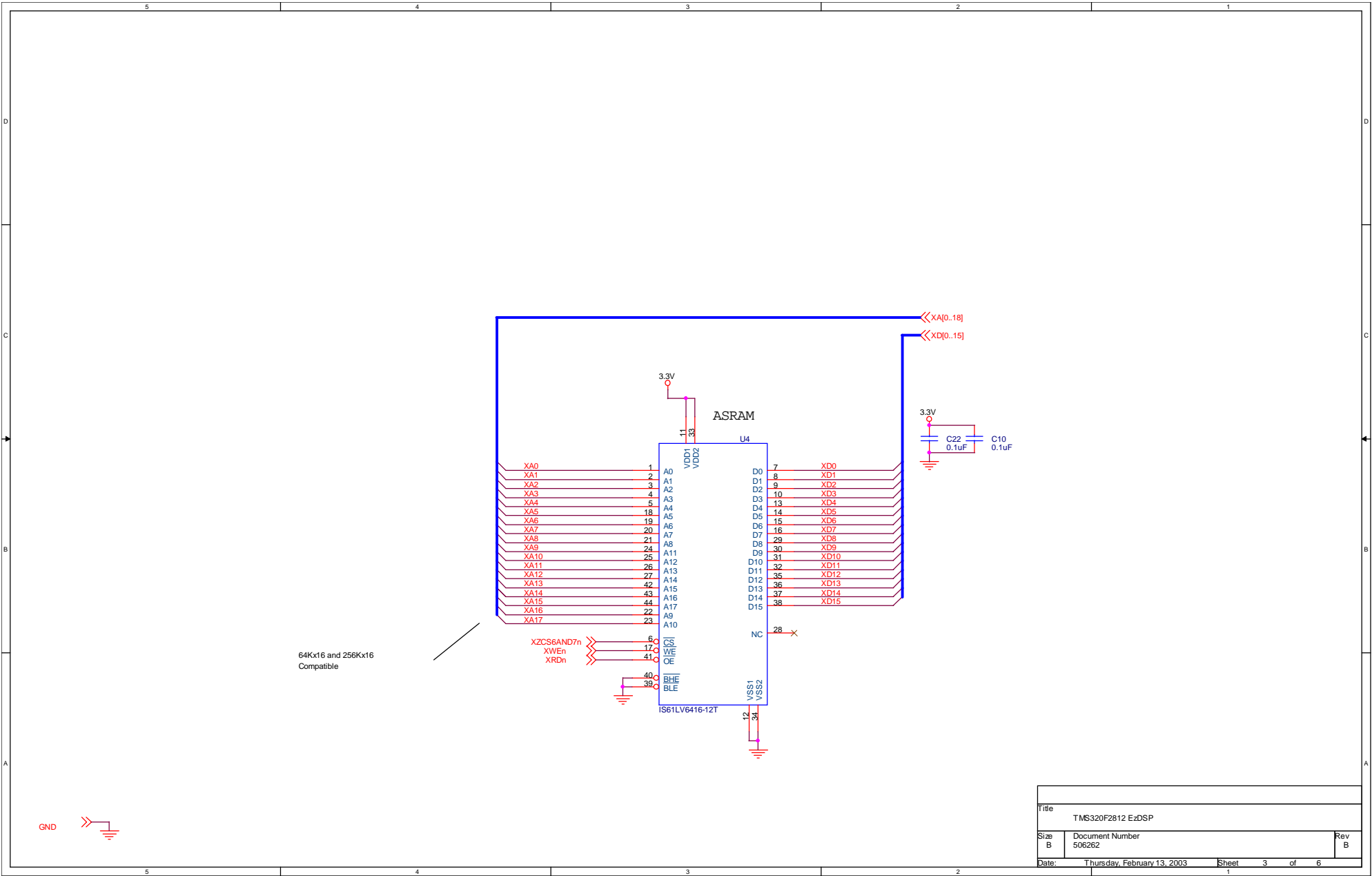
REVISION STATUS OF SHEETS							DATE
REV							DWN
SH							CHK
REV							ENGR
SH							ENGR-MGR
REV							QA
SH							MFG
REV	C	C	B	C	C	C	NEXT ASSY
SH	1	2	3	4	5	6	USED ON
							APPLICATION
							ELSE

**SPECTRUM DIGITAL**

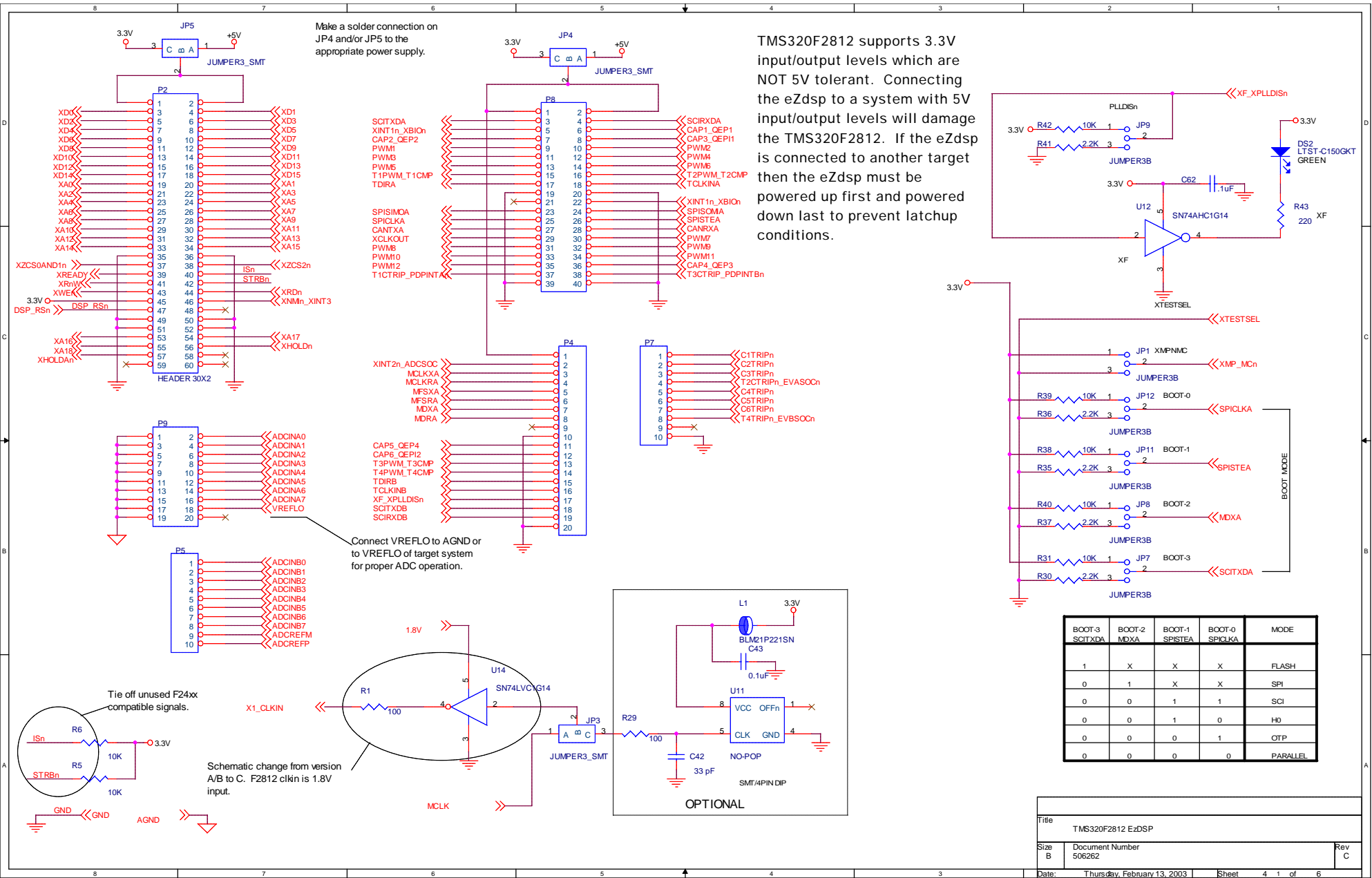
Title		
TMS320F2812 EzDSP		
Size	Document Number	Rev
B	506262	C
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Title		
TMS320F2812 EzDSP		
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B	506262	C
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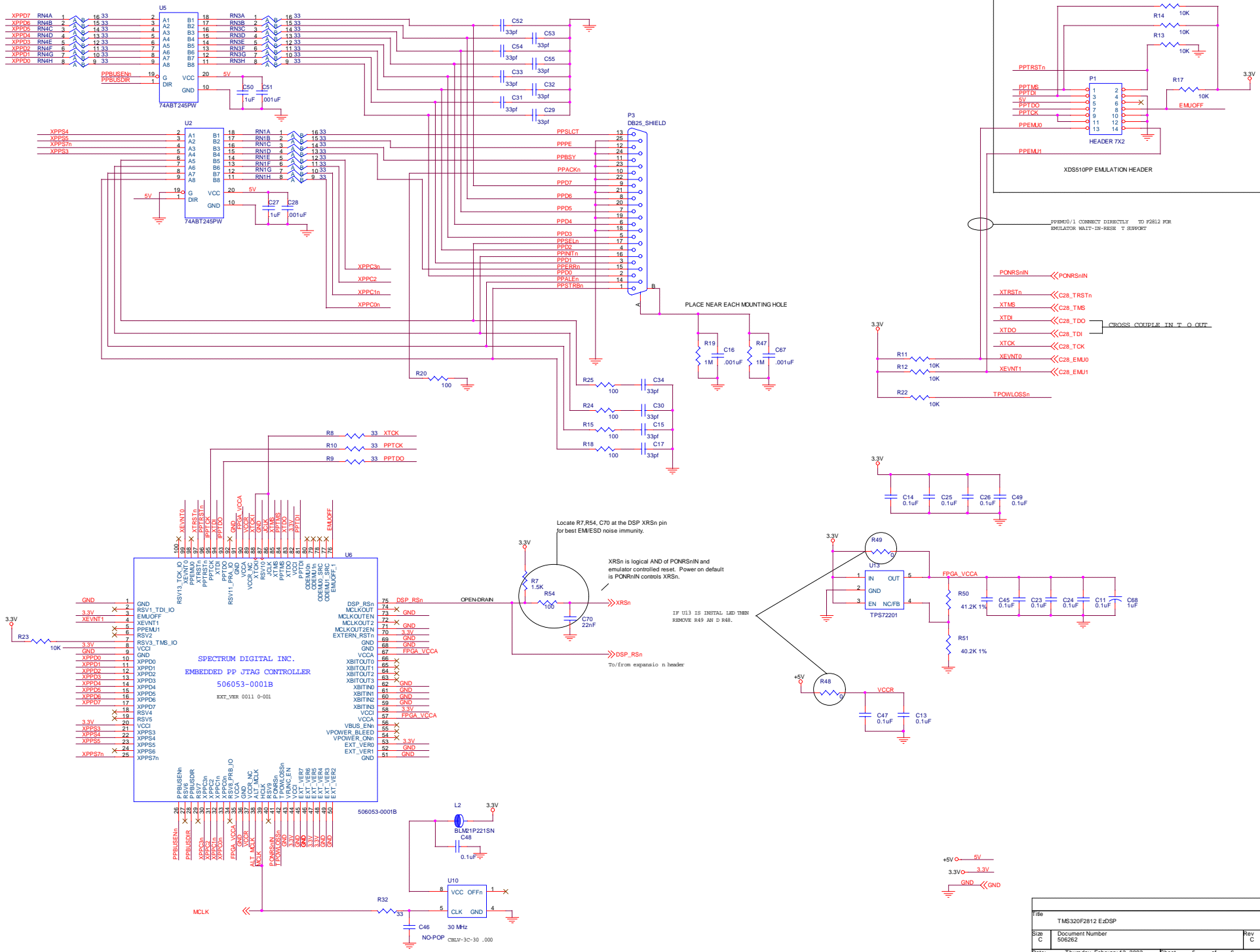


Title		
TMS320F2812 EzDSP		
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B	506262	B
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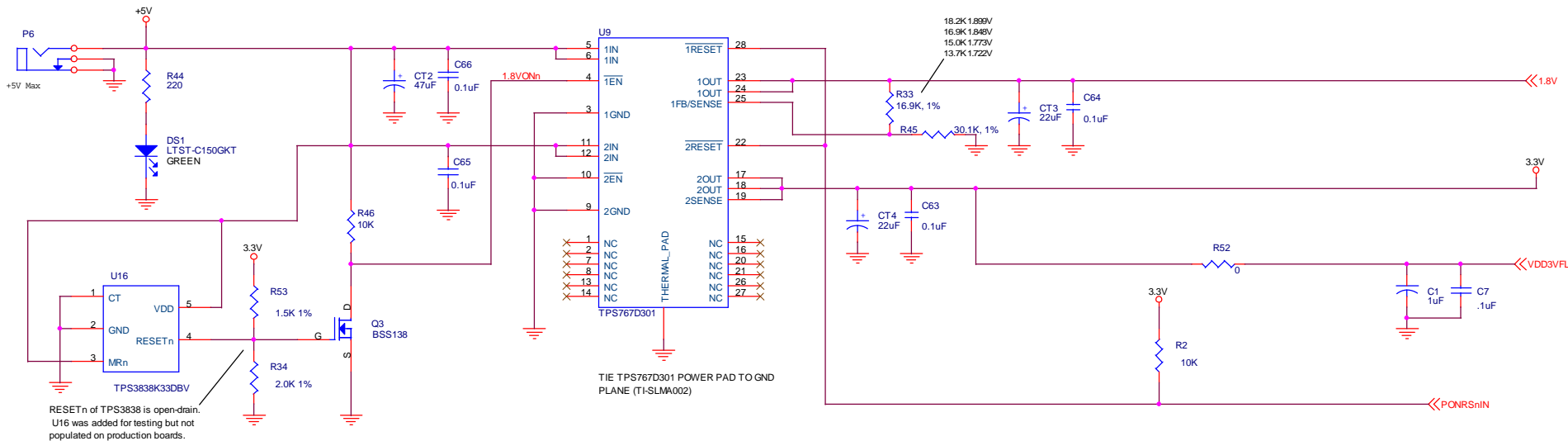


TMS320F2812 supports 3.3V input/output levels which are NOT 5V tolerant. Connecting the eZdsp to a system with 5V input/output levels will damage the TMS320F2812. If the eZdsp is connected to another target then the eZdsp must be powered up first and powered down last to prevent latchup conditions.

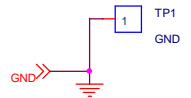
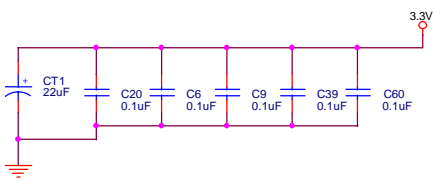
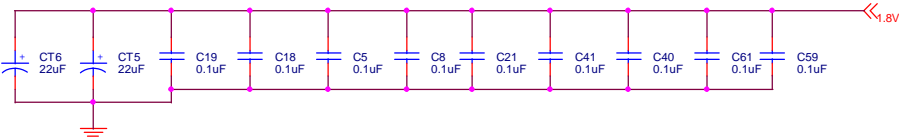
BOOT-3	BOOT-2	BOOT-1	BOOT-0	MODE
SCITXDA	MDXA	SPISTEA	SPICKKA	
1	X	X	X	FLASH
0	1	X	X	SPI
0	0	1	1	SCI
0	0	1	0	HD
0	0	0	1	OTP
0	0	0	0	PARALLEL



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RESETn of TPS3838 is open-drain. U16 was added for testing but not populated on production boards.



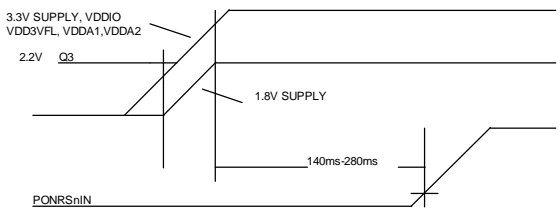
**POWER ON SEQUENCE NOTES**

3.3V THEN 1.8V

PONRSnIN, GOES HIGH > 200ms AFTER ALL POWER IS STABLE.

SET Q3 TO TURN ON WHEN 3.3V SUPPLY IS GREATER THEN 2.2 VOLTS. REGULATOR TURN ON DELAY AND RAMP RATE WILL ENSURE THAT 3.3V SUPPLY IS AT 2.5 VOLTS OR HIGHER BEFORE THE 1.8V SUPPLY REACHES 0.3 VOLTS.

U16 WILL TURN OFF THE 1.8V SUPPLY WHEN INPUT POWER FALLS BELOW 2.94V. THIS SPEEDS UP THE 1.8V SUPPLY TURN OFF.



**TPS767D301 RATINGS**

MAX Iout PER CHANNEL IS 1A

TPS767D301 PD = (Vin-Vout)\*Iout

VOLTAGE SUPPLY	MAX CURRENT	TPS767D301 PD
1.8V	333mA	1065mW
3.3V	307mA	521mW
		1586mW Total

PD(max) = (Tj(max) - Ta)/Rja

= (125 - 35)/27.9

= 3255mW