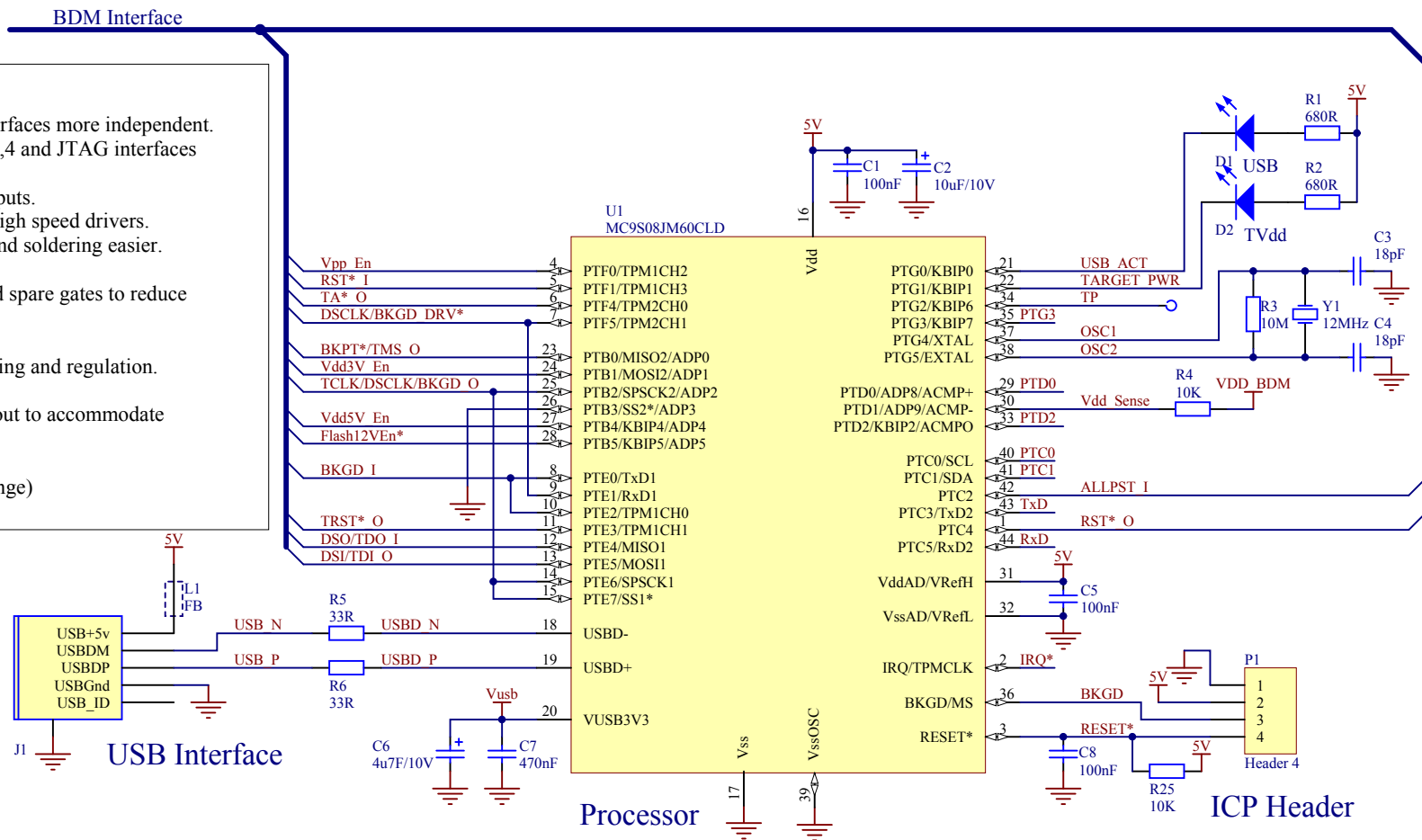
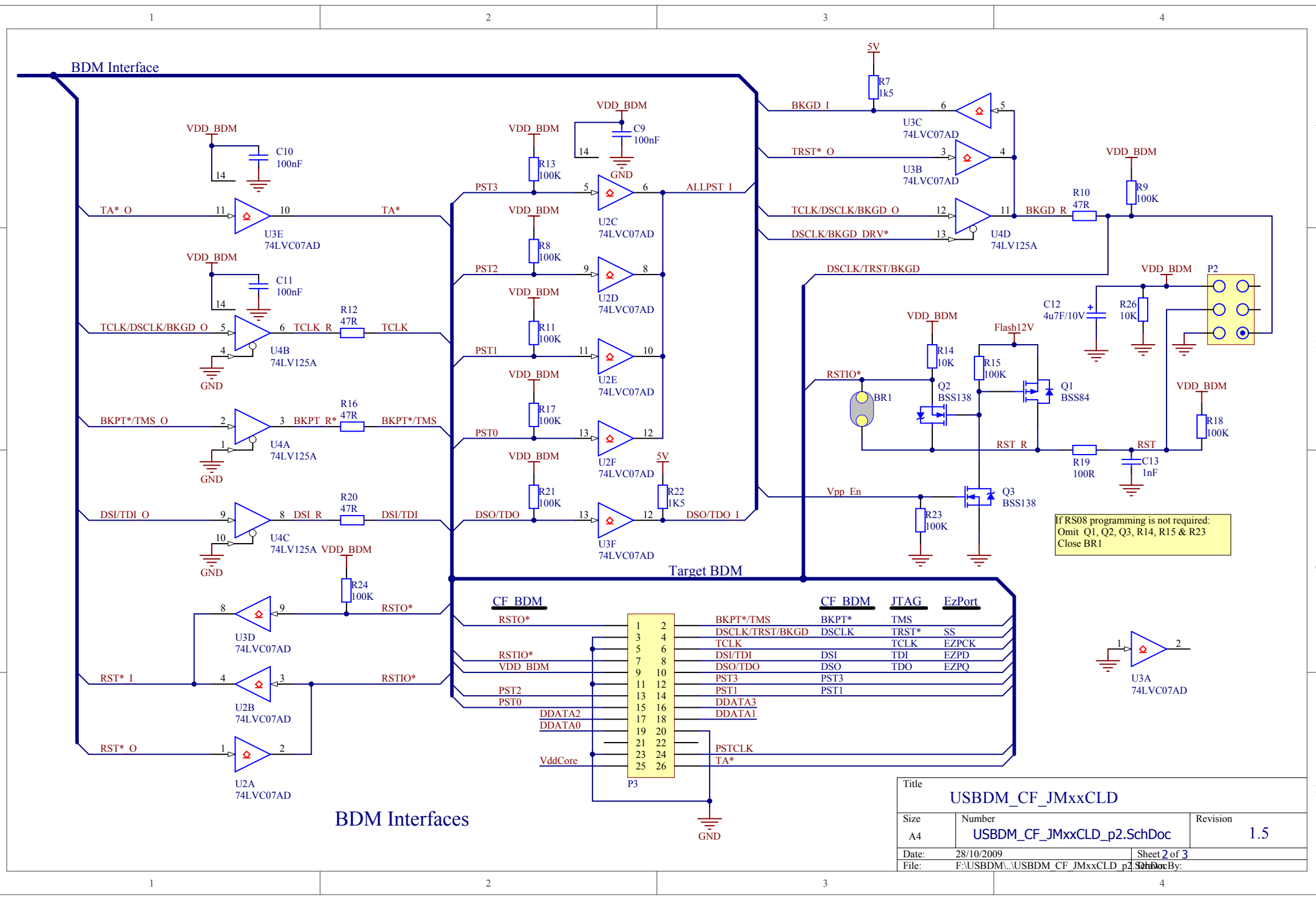


Ver 1.1 - Initially built design
 Ver 1.2 -
 Changed to 74LVC07AD to make interfaces more independent.
 Adopted use of SPIs for Coldfire V2,3,4 and JTAG interfaces
 Pin usage changes for above.
 Added pull-up resistors to all BDM inputs.
 Added series terminating resistors to high speed drivers.
 Changed size of SOIC pad to make hand soldering easier.
 Ver 1.3 -
 Added ALLPST* signal (U2) and used spare gates to reduce transistor count.
 Ver 1.4 -
 Changed Target Voltage supply switching and regulation.
 Ver 1.5 -
 Changed Coldfire BDM connector layout to accommodate keyed connector
 Added PUP to RESET* line
 Corrected Polyfuse name (no PCB change)



Title USBDM_CF_JMxxCLD		
Size A4	Number USBDM_CF_JMxxCLD_p1.SchDoc	Revision 1.5
Date: 28/10/2009	Sheet 1 of 3	
File: F:\USBDM\USBDM CF JMxxCLD p1.SchDoc	By:	

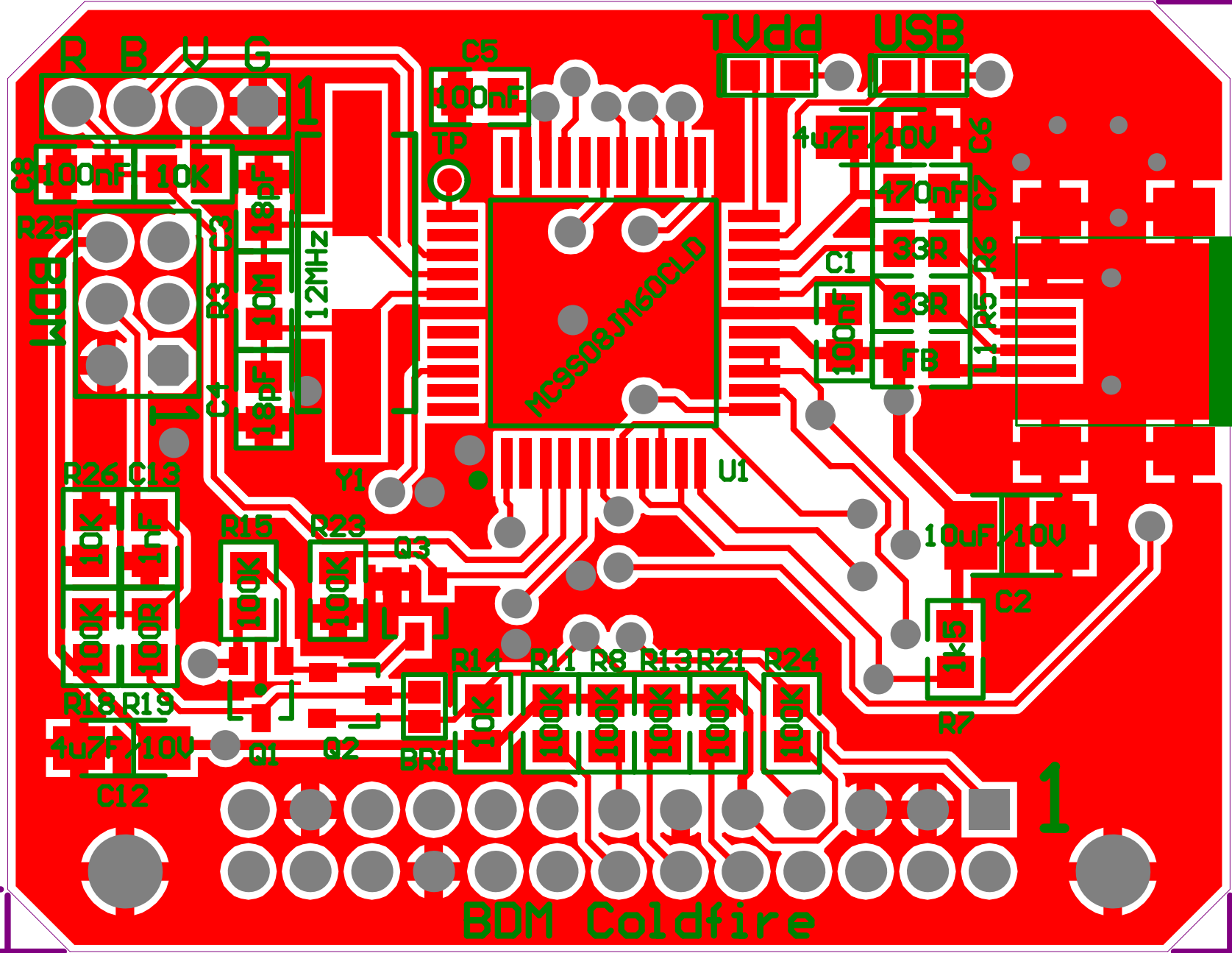


Title		
USBDM_CF_JMxxCLD		
Size	Number	Revision
A4	USBDM_CF_JMxxCLD_p2.SchDoc	1.5
Date:	28/10/2009	Sheet 2 of 3
File:	F:\USBDM\USBDM CF JMxxCLD p2.SchDoc	By:

101.00



USBDM_CF_JMxxCLD.PcbDoc



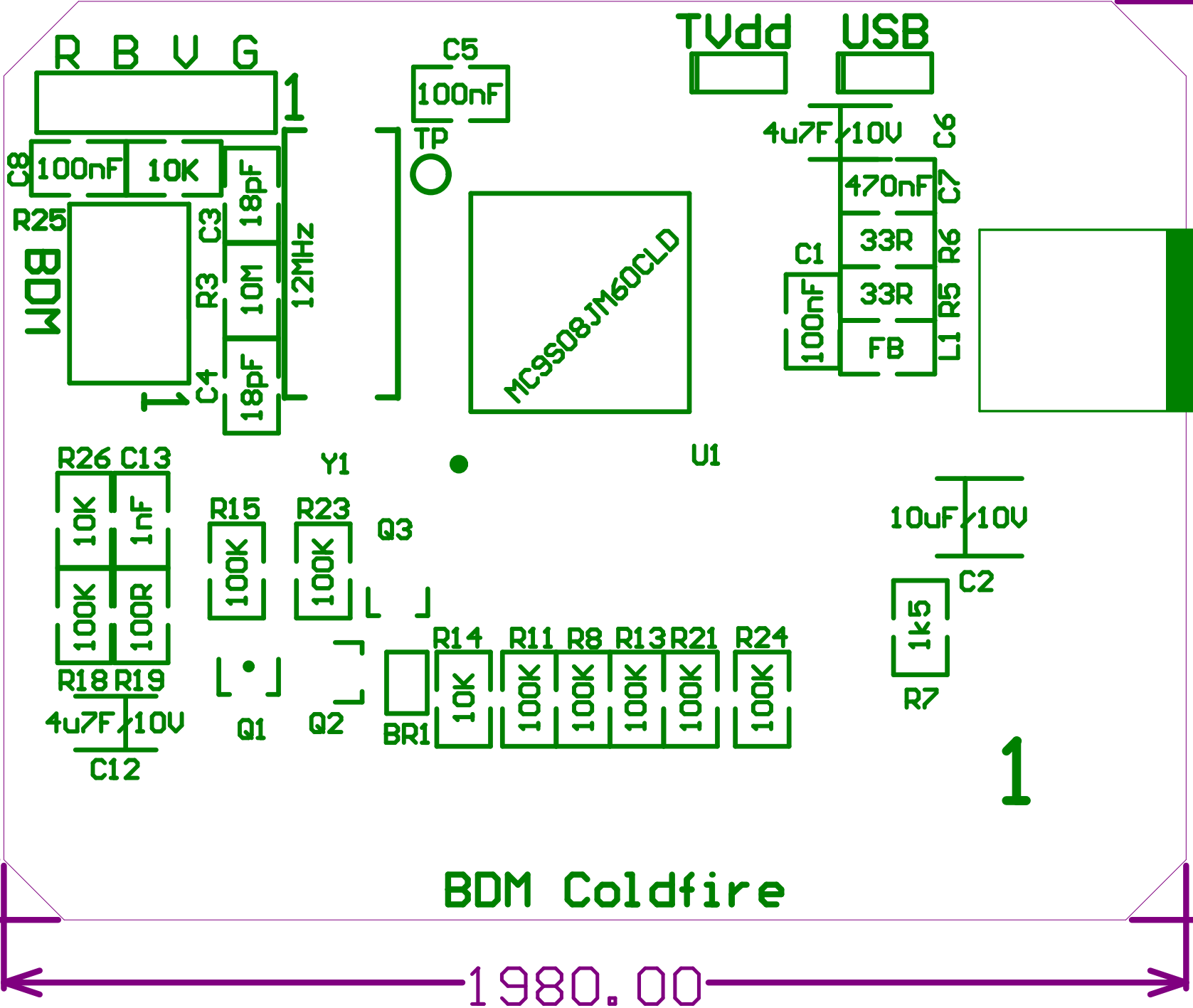
1540.00



Board Outline this layer

101.00

USBDM_CF_JMxxCLD.PcbDoc



1540.00

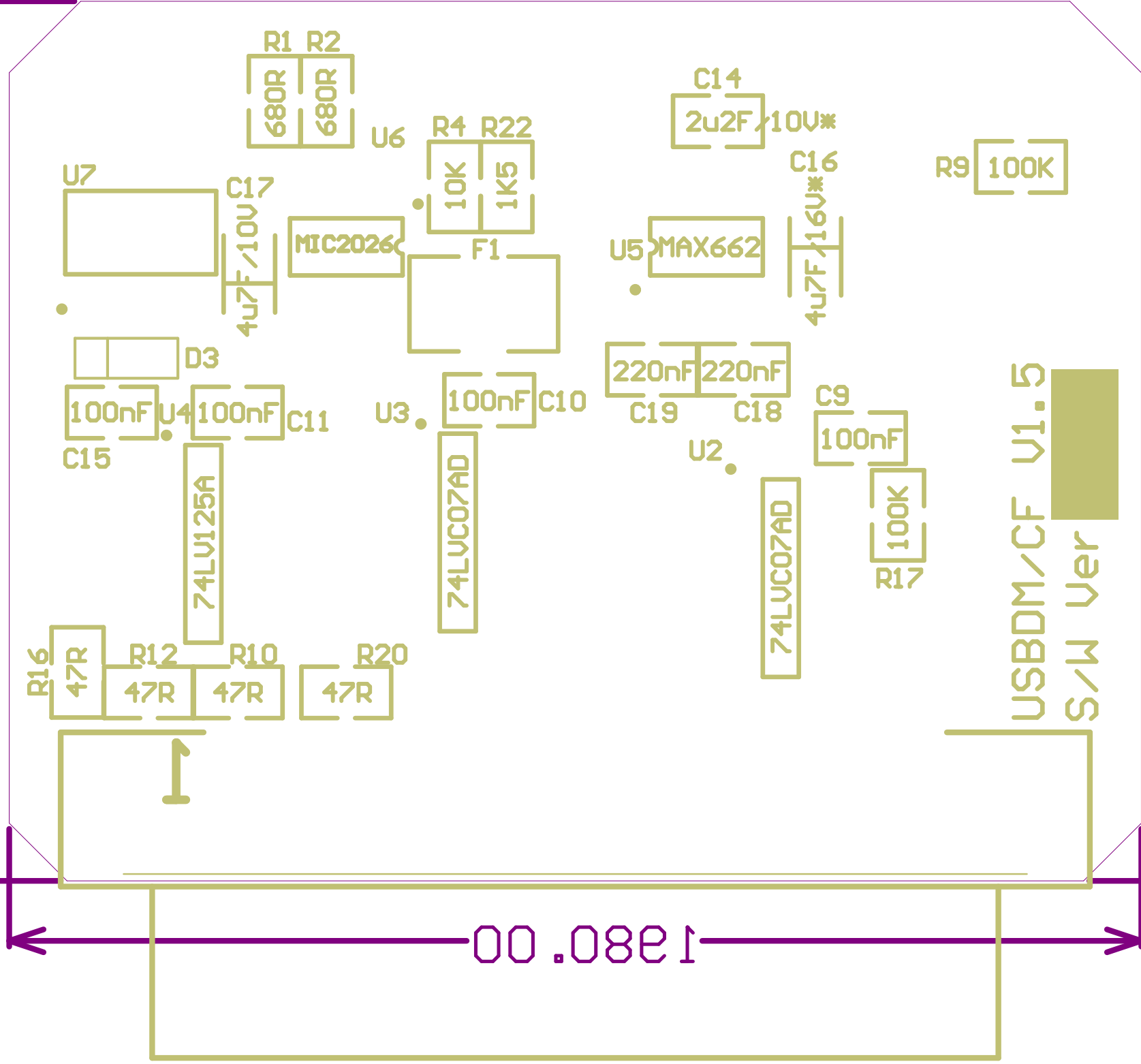
Board Outline this layer

BDM Coldfire

1980.00

Board outline size 1 page

00.0421



00.0421

00.101

Bill of Materials

USBDM_CF_JMxxCLD

Source Data From:	USBDM_CF_JMxxCLD.PRJPCB
Project:	USBDM_CF_JMxxCLD.PRJPCB
Variant:	None

Creation Date:	28/10/2009	8:33:27 PM
Print Date:	28-Oct-09	8:33:32 PM

Footprint	Comment	Farnell PN	Digikey	Designator	Description	Quantity
HDR2X3a	Header 3x2			P2	2x3 Transition or Male Header	1
Socket R/A 2x13	Socket R/A 2x13	1034415		P3	2x13 Right Angle Socket or Male Header	1
SO-G8/E2.9	MAX662ACSA+	9724605		U5	12V Charge Pump for Flash Memory	1
CCNP2012-0805	100nF	1186187		C1, C5, C8, C9, C10, C11, C15	Capacitor SMT	7
CCNP2012-0805	18pF	1414673		C3, C4	Capacitor SMT	2
CCNP2012-0805	1nF	1362553		C13	Capacitor SMT	1
CCNP2012-0805	220nF	8820139		C18, C19	Capacitor SMT	2
CCNP2012-0805	2u2F/10V*	9402152		C14	Capacitor SMT	1
CCNP2012-0805	470nF	1288279		C7	Capacitor SMT	1
XTAL_SMT	12MHz	4667074		Y1	Crystal (SMT HC49/US)	1
CR2012-0805	FB	1515661		L1	Ferrite Bead (0805)	1
QFP80P1320X1320-44M	MC9S08JM60CLD	1562859	MC9S08JM60CLD-ND	U1	HCS08 CPU with USB, 44p QFP (0.8mm)	1
751A-03_M	74LVC07AD	1236300		U2, U3	Hex Buffer / Driver with Open-Collector High-Voltage Outputs	2
LED-SMT-2	LED Green	5790852		D1	LED (Green SMT)	1
LED-SMT-2	LED Red	5790839		D2	LED (Red SMT)	1
318E-04	MC33375ST-3.3T3	1150444		U7	Low Dropout 300mA Voltage Regulator with ON/OFF Control	1
SOT23-1	BSS138	1467960		Q2, Q3	N-Channel Enhancement Mode Vertical DMOS FET	2
SOT23	BSS84	1094997		Q1	P-channel Enhancement Mode Vertical D-MOSFET	1
SMT_CaseB	10uF/10V	1288264		C2	Polarized Capacitor	1
SMT_CaseA	4u7F/10V	9527737		C6, C12, C17	Polarized Capacitor	3
SMT_CaseA	4u7F/16V*	1358506		C16	Polarized Capacitor	1
CR4532-1812	miniSMD C050F	1175839		F1	Polyswitch	1
SO-G8/E2.9	MIC2026-1YM	4461964,1517242		U6	Power Switch	1
751A-03_M	74LV125A	9592504		U4	Quad 3-State Non-Inverting Buffer (F1013776)	1
CR2012-0805	100K	9332405		R8, R9, R11, R13, R15, R17, R18	Resistor SMT	10
				R21, R23, R24		
CR2012-0805	100R	1632456		R19	Resistor SMT	1
CR2012-0805	10K	1638463		R4, R14, R25, R26	Resistor SMT	4
CR2012-0805	10M	9236392		R3	Resistor SMT	1
CR2012-0805	1k5	1632464		R7, R22	Resistor SMT	2
CR2012-0805	33R	1631399		R5, R6	Resistor SMT	2
CR2012-0805	47R	1632490		R10, R12, R16, R20	Resistor SMT	4
CR2012-0805	680R	9334785		R1, R2	Resistor SMT	2
SOD123	MBR0530T1	1126551		D3	Schottky Diode	1
USB_Mini - SMT2	USB_MINI_CONNECTOR	1363522		J1	USB Mini-B Connector	1

64

Approved	Notes