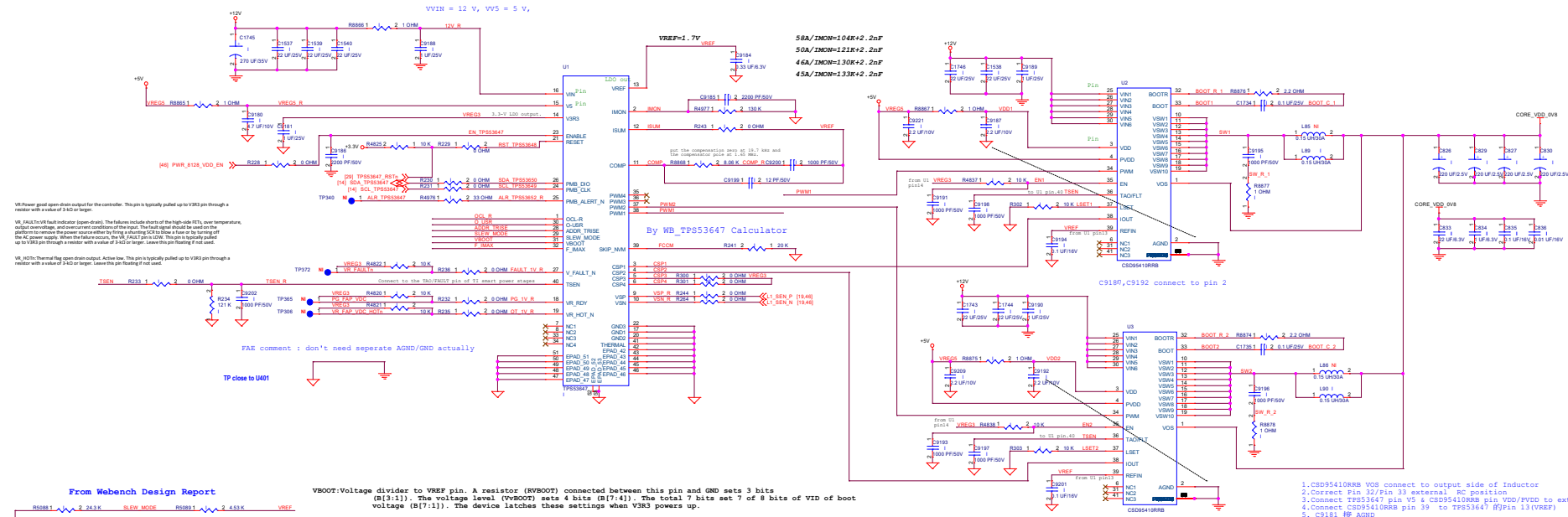




From Webench Design Report

SLEW_MODE 0.68 mV/uS

VBOOT: Voltage divider to VREF pin. A resistor (RVBOOT) connected between this pin and GND sets 3 bits (B[3:1]). The voltage level (VBOOT) sets 4 bits (B[7:4]). The total 7 bits set 7 of 8 bits of VLD of boot voltage (B[7:1]). The device latches these settings when VFB2 powers up.

From Webench Design Report

Set OSR/USR Thresholds :150K turn off

R _{OSR} (kΩ)	OSR THRESHOLD (mV)
20	30
24	40
30	60
39	80
50	100
75	120
100	140
150	OFF

From Webench Design Report

VBOOT=1.7V*(24K/(24K+27.4K)) = 0.793V
BOOT Voltage : set to 0.687V B[7:0] 01110011

By Webench Design

Pin 32 (P-IMAX) From Webench Design Report

Switch freques set to 500KHz

From Webench Design Report

VOCL=1.7V*(30.1K/(30.1K+54.9K)) = 0.602V

Per-Phase Valley Current Limit And Ramp Level set to 30A

V _{DD} (V)	R _{OSR} (kΩ)	PER-PHASE VALLEY CURRENT LIMIT (A)
≤ 0.85	20	24
	24	27
	30	30
	39	33
	50	36
≥ 0.85	75	30
	100	42
	150	45
	24	51
	30	54

R _{BOOT} (kΩ)	BOOT VOLTAGE VLD
20	0.00
24	0.01
30	0.02
39	0.03
50	0.04
75	0.05
100	0.06
150	0.07

Table 79. Boot Voltage VLD Selection (Step 2)

V _{BOOT} (V)	BOOT VOLTAGE VLD
V _{BOOT} ≤ 0.05V ± 20 mV	0000
V _{BOOT} = 0.05V ± 20 mV	0001
V _{BOOT} = 0.07V ± 20 mV	0010
V _{BOOT} = 0.07V ± 20 mV	0011
V _{BOOT} = 0.09V ± 20 mV	0100
V _{BOOT} = 0.09V ± 20 mV	0101
V _{BOOT} = 0.09V ± 20 mV	0110
V _{BOOT} = 0.09V ± 20 mV	0111
V _{BOOT} = 0.11V ± 20 mV	1000
V _{BOOT} = 0.11V ± 20 mV	1001
V _{BOOT} = 0.11V ± 20 mV	1010
V _{BOOT} = 0.11V ± 20 mV	1011
V _{BOOT} = 0.13V ± 20 mV	1100
V _{BOOT} = 0.13V ± 20 mV	1101
V _{BOOT} = 0.13V ± 20 mV	1110
V _{BOOT} = 0.13V ± 20 mV	1111

Table 80. Boot Voltage VLD Selection (Step 3)

R _{BOOT} (kΩ)	BOOT VOLTAGE VLD
20 or 30 or 50 or 100	0
24 or 39 or 75 or 150	1

R5086 = 24K /R5087 = 16.5K => 1.007V / 0x71h

VREF=1.7V

0.953V +/- 0.02V = 0.973V - 0.033V

V _{DD} address bits set (11P0P0P0P0)	V _{DD} address bits set (11P0P0P0P0)
V _{DD} = 0.953 V with ±20 mV tolerance	1100000
V _{DD} = 0.953 V with ±20 mV tolerance	1100001
V _{DD} = 0.953 V with ±20 mV tolerance	1100010
V _{DD} = 0.953 V with ±20 mV tolerance	1100011
V _{DD} = 0.953 V with ±20 mV tolerance	1100100
V _{DD} = 0.953 V with ±20 mV tolerance	1100101
V _{DD} = 0.953 V with ±20 mV tolerance	1100110
V _{DD} = 0.953 V with ±20 mV tolerance	1100111
V _{DD} = 0.953 V with ±20 mV tolerance	1101000
V _{DD} = 0.953 V with ±20 mV tolerance	1101001
V _{DD} = 0.953 V with ±20 mV tolerance	1101010
V _{DD} = 0.953 V with ±20 mV tolerance	1101011
V _{DD} = 0.953 V with ±20 mV tolerance	1101100
V _{DD} = 0.953 V with ±20 mV tolerance	1101101
V _{DD} = 0.953 V with ±20 mV tolerance	1101110
V _{DD} = 0.953 V with ±20 mV tolerance	1101111