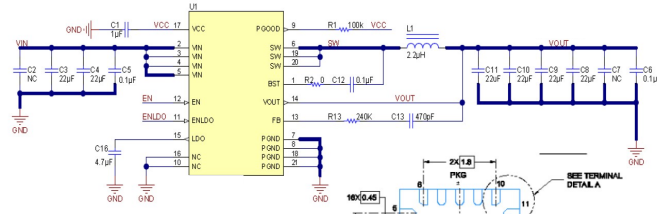


Vin	17.6V
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Short/Open happen before Power up

Test Point	Name	Pin	Mode	Failure Symptom	Damage?	Smoke etc ?
U1(U325)	BST	1	Open	Vin short to GND and current limited	Yes, Vin/sw/LDO/VCC are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	VIN	2,3,4,5	Open	No Vbuck and VLDO	No	No
	SW	6,19,20	Open	Vin short to GND and current limited	Yes, Vin/sw/LDO/VCC are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	PGND	7,8,19,20	Open	N/A	N/A	N/A
	PGOOD	9	Open	No Failure	No	No
	NC	10,16	Open	No Failure	No	No
	ENLDO	11	Open	No LDO output	No	No
	EN	12	Open	No Vbuck	No	No
	FB	13	Open	No Failure	No	No
	VOUT	14	Open	No Vbuck	No	No
	LDO	15	Open	LDO is not stable	No	No
	VCC	17	Open	No Vbuck and VLDO	No	No
	BST - VIN	1 - 2	Short	Vin short to GND and current limited	Yes, Vin/boost/sw are short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	VIN - SW	2 - 6	Short	Vin short to GND and current limited	Yes, Vin/boost/sw/LDO/VCC are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	SW - PGND	6 - 7	Short	Vin short to GND and current limited	Yes, Vin/sw are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	PGND - PGOOD	8 - 9	Short	No PGOOD	No	No
	PGOOD - NC	9 - 10	Short	No PGOOD	No	No
	NC - ENLDO	10 - 11	Short	No VLDO	No	No
	ENLDO - EN	11 - 12	Short	No Failure	No	No
	EN - FB	12 - 13	Short	No Vbuck	No	No
	FB - VOUT	13 - 14	Short	No Vbuck	No	No
	VOUT - LDO	14 - 15	Short	No Failure	No	No
	LDO - NC	15 - 16	Short	No LDO output	No	No
	NC - VCC	16 - 17	Short	No Vbuck and VLDO	No	No
	VCC - PGND	17 - 18	Short	No Vbuck and VLDO	No	No
	PGND - SW	18 - 19	Short	Vin short to GND and current limited	Yes, Vin/sw are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
	SW - BST	20 - 21	Short	Vbuck goes to lower	No	No
C1(C9xx1)	same as U1:17-18 short		Short	No Vbuck and VLDO	No	No
	same as U1:17 open		Open	No Vbuck and VLDO	No	No
C2(C9200)			Short	Vin current limited	No	No
			Open	No Failure	No	No
C3(C9199)	same as C2		Short	Vin current limited	No	No
	same as C2		Open	No Failure	No	No
C4(C9198)	same as C2		Short	Vin current limited	No	No
	same as C2		Open	No Failure	No	No
C5(C9197)	same as C2		Short	Vin current limited	No	No
	same as C2		Open	No Failure	No	No
C6(C9204)			Open	No Failure	No	No
			Short	No Vout, OC protection	No	No
C7(C9205)	same as C6		Open	No Failure	No	No
	same as C6		Short	No Vbuck, OC protection	No	No
C8(C9206)	same as C6		Open	No Failure	No	No
	same as C6		Short	No Vbuck, OC protection	No	No
C9(C9207)	same as C6		Open	No Failure	No	No
	same as C6		Short	No Vbuck, OC protection	No	No
C10(C9208)	same as C6		Open	No Failure	No	No
	same as C6		Short	No Vbuck, OC protection	No	No
C11(C9209)	same as C6		Open	No Failure	No	No
	same as C6		Short	No Vbuck, OC protection	No	No
C12(C9202)	same as U1:1 open		Open	No Vbuck, VLDO is around 2V	No	No
			Short	Vbuck goes to low	No	No
C13(C9203)	same as U1:13 open		Open	No Failure	No	No
			Short	No Vbuck	No	No
C16(C9196)	same as U1:15 open		Open	LDO is not stable	No	No
	same as U1:15-16 short		Short	No LDO output	No	No
L1(L 135)			Open	No Vbuck	No	No
			Short	Vin short to GND and current limited	Yes, Vin/SW are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
R1(R9xx1)	same as U1:9 open		Open	No PGOOD	No	No
			Short	No Vbuck and VLDO	No	No
R2(R10347)	same as U1:1 open		Open	Vin short to GND and current limited	Yes, Vin/sw/LDO/VCC are all short to GND	1, No, if Vin power supply with OCP shut down protection 2, Yes, If current limit set to a higher value without OCP shutdown protection on Vin power supply
			Short	No Failure	No	No
R13(R10348)	same as U1:13 open		Open	No Failure	No	No
			Short	No Failure	No	No