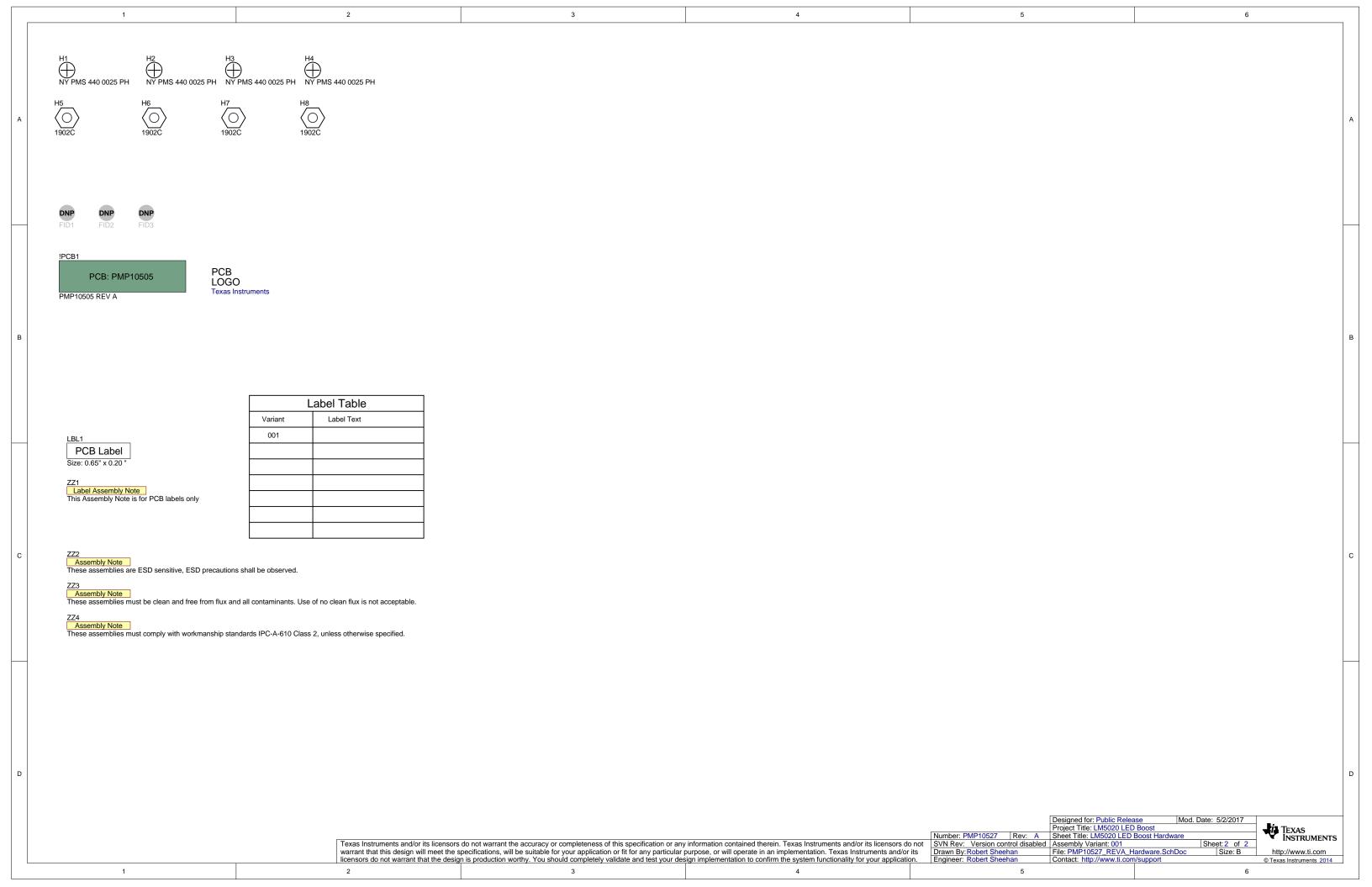
3 4 5 6 **Revision History** Notes: Revision 1. Built on PMP10505 Rev A printed circuit board. 2. Reference designators greater than 100 are additional components that do not appear on the Rev A printed circuit board. Initial design 3. For constant voltage load testing set load to 126V and use 200 ohms series resistance per string to model the LED forward voltage and dynamic resistance. 4. For frequency response testing use 220uF 200V aluminum electrolytic capacitor across the constant voltage load. TP7 O TP9 137V 130mA 205mA Constant Current Source MSS1038-224KLB 220µH DFLS1200-7 TP8 O TP10 GND GND =C1 4.7μF 100V 1A 200V ~ 92VDC **♦** TP13 GND ĞND TP11 GND Use 3.3uF external input capacitor for Cin 를 GND Q1 IRF5801TRPBF 200V 2 strings of 24 LEDs. 5.8V per LED at 65mA per string. GND GND 는 =C6 0.1µF __100V O TP14 K2 D101 BZX84C43LT1G NC 43V R2 100k R3 0.22µF VIN 300 UVLO 7 **\$1.00** 330pF FB ⊲ 2 R11 를 GND GND = GND D102 BZX84C43LT1G NC 43V 0.01μF GND COMIT LM5020MM-2/NOPB COMP R14 R15 COMP 51 51k R18 _{FB4} 를 GND C103 R101 For stability adjust compensation capacitor C103 + C104 = 3 x Cin 4.7µF +C102 1μF TP103 FB4 R102 Q101 MMBT3904-7-F 330 10μF TP102 FB2 R103 LMV431AIMFX/NOPB 20.0k R104 5.1k R105 TP105 FB1 -OTP104 를 GND J GND 20.0k Designed for: Public Release Project Title: LM5020 LED Boost Mod. Date: 8/26/2014 Number: PMP10527 Rev: A Sheet Title: LM5020 LED Boost http://www.ti.com licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application. © Texas Instruments 2014 2 6 3 5



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