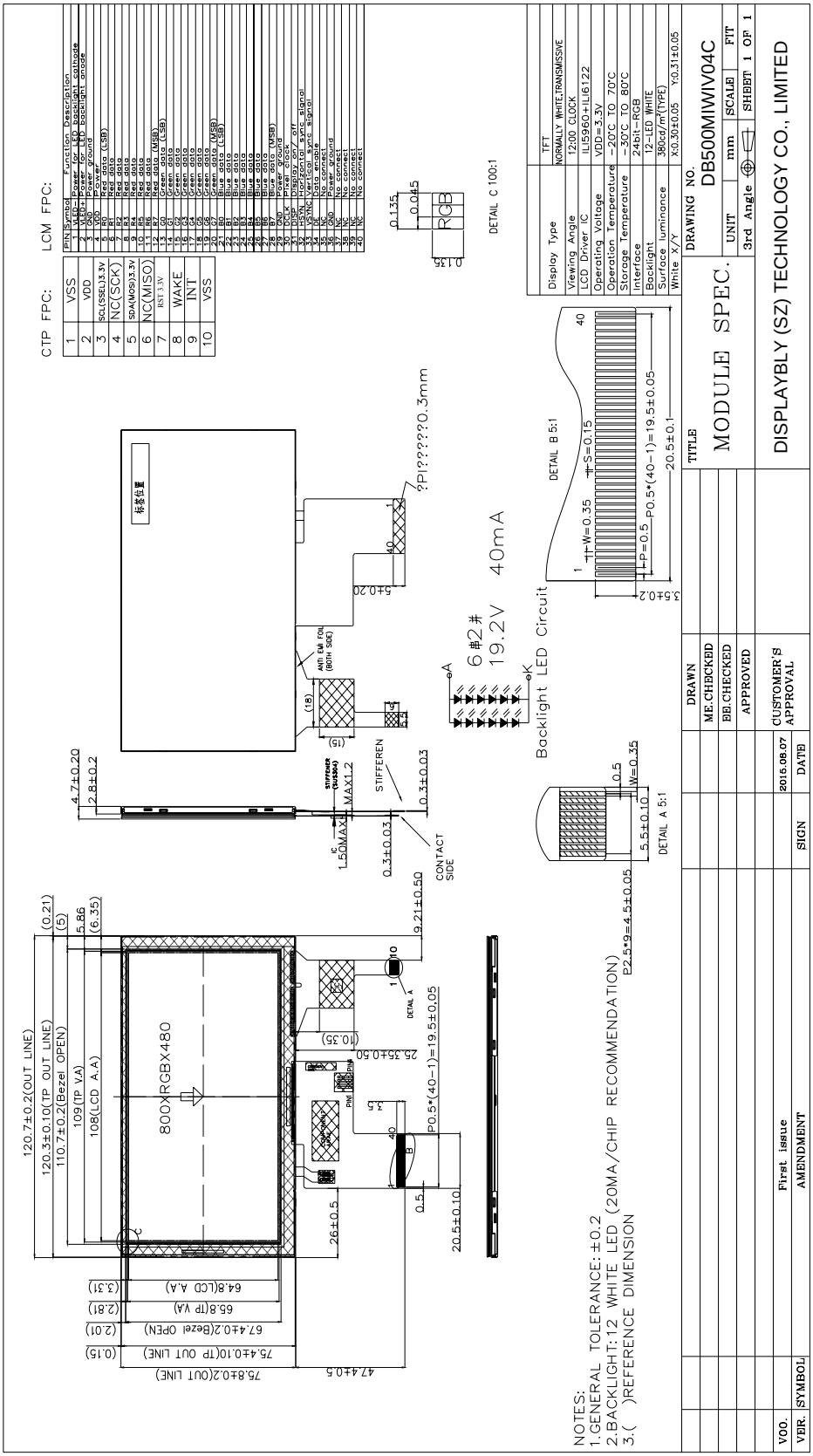
CTP FPC:
1 VSS
2 VDD
3 SCL(SSEL)3.3V
4 NC(SCK)
5 SDA(MOSI)3.3V
6 NC(MISO)
7 RST 3.3V
8 WAKE
9 INT
10 VSS
LCM FPC:
PIN Symbol Function Description
1 LED- Power for LED backlight cathode
2 LED+ Power for LED backlight anode
3 VDD Power
4 VDD Power
5 R1 Red data (LSB)
6 R2 Red data
7 R3 Red data
8 R4 Red data
9 R5 Red data
10 R6 Red data
11 R7 Red data (MSB)
12 G0 Green data (LSB)
13 G1 Green data
14 G2 Green data
15 G3 Green data
16 G4 Green data
17 G5 Green data
18 G6 Green data (MSB)
19 B0 Blue data (LSB)
20 B1 Blue data
21 B2 Blue data
22 B3 Blue data
23 B4 Blue data
24 B5 Blue data
25 B6 Blue data (MSB)
26 GND Power ground
27 GND Power ground
28 DISP Display on/ off
29 VSYN Vertical sync signal
30 HSYN Horizontal sync signal
31 DE Data enable
32 NC No connect
33 GND Power ground
34 NC No connect
35 NC No connect
36 NC No connect
37 NC No connect
38 NC No connect
39 NC No connect
40 NC No connect
Display Type TFT
Viewing Angle NORMALLY WHITE,TRANSMISSIVE 12:00 CLOCK
LCD Driver IC IL6960+IL6122
Operating Voltage VDD=3.3V
Operation Temperature -20°C TO 70°C
Storage Temperature -30°C TO 80°C
Interface 24bit-RGB
Backlight 12-LED WHITE
Surface luminance 380cd/m²(TYPE)
White X/Y X:0.30±0.05 Y:0.31±0.05
DRAWING NO.
DB500MIWIV04C
MODULE SPEC.
UNIT mm SCALE FIT
3rd Angle SHEET 1 OF 1
DISPLAYBLY (SZ) TECHNOLOGY CO., LIMITED
DRAWN
ME.CHECKED
EE.CHECKED
APPROVED
CUSTOMER'S APPROVAL
2016.08.07
DATE
SIGN
First issue
AMENDMENT
VER. SYMBOL
NOTES:
1.GENERAL TOLERANCE: ±0.2
2.BACKLIGHT:12 WHITE LED (20MA/CHIP RECOMMENDATION)
3.( )REFERENCE DIMENSION
DETAIL C 100:1
DETAIL B 5:1
DETAIL A 5:1
Backlight LED Circuit
6#2#
19.2V 40mA
800XRGBX480
120.7±0.2(OUT LINE)
120.3±0.10(TP OUT LINE)
110.7±0.2(Bezel OPEN)
109(TP V.A)
108(LCD A.A)
75.8±0.2(OUT LINE)
75.4±0.10(TP OUT LINE)
67.4±0.2(Bezel OPEN)
65.8(TP V.A)
64.8(LCD A.A)
47.4±0.5
?P1?????0.3mm
ANTI EMI FOIL (BOTH SIDE)
STIFFEREN
CONTACT SIDE
IC 1.50MAX
MAX1.2
9.21±0.50
25.35±0.50
P0.5*(40-1)=19.5±0.05
20.5±0.10
26±0.5
P2.5*9=4.5±0.05
5.54±0.2
20.5±0.1
P0.5*(40-1)=19.5±0.05
W=0.35
S=0.15
P=0.5