



PCB NAME: VTP-LED30KG				
PCB SPECIFICATIONS:				
A. MATERIAL: B. MATERIAL FAMILY:	FR-4 N/A	X TG-170	☐ TG-150	☐ TG-140
C. SOLDERMASK COLOR: D. SILKSCREEN COLOR: E. SURFACE FINISH:	☐ MATTE (X WHITE ☐ ENIG	YELLOW IMMERSIO		MATTE BLACK □ Blue ink PANTONE 2955 □ IMMERSION TIN
E. IMPEDANCE CONTROL: G. THROUGH VIA: H. STACK-UP: QR CODE:	PLUG THE	VIAS WHICH A 1.6mm THICKN	E IMPÉDANCI RE COVERE IESS, 1oz CC	GOLDEN FINGER E TABLE FOR DETAIL INFORMATION) D WITH SOLDERMASK TWO SIDE. DPPER THICKNESS EACH LAYER ABLE FOR DETAIL INFORMATION)
QR CODE INFORMATION				

001

(3 characters)

Lô sản xuất

XXXX (4 characters)

Số thứ tự trong lô

LED_ (3 characters)

Ký hiệu mạch

VTP_ (4 characters)

Ký hiệu công ty

VTP_LED30KG_0010001

RULE:

Explain

Example:

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.010mm	3.5	
1	Top Layer		0.036mm		
	Dielectric 1	FR-4	1.600mm	4.8	
2	Bottom Layer		0.036mm		
	Bottom Solder	Solder Resist	0.010mm	3.5	
	Bottom Overlay				
		7/////	7////	77	

QR_CODE_AREA
vielte.

Comment	Description	Designator 3V3, 3V3 , 5V, 5VBUS	Footprint	LibRef	Quantity
Testpoint	Testpoint	8V, A485, B485, GND, GND6, GND_ RX1, SNCLK, SNDIO, TX1	Testpoint_signal	T?	17
button SMD 6x6x5	SPST 50mA @ 12VDC Vertical Round Button SMD,6x6x5mm Tactile Switches RoHS	B2	button 250 smd	button 250_SMD	1
10uF	25V10uFX5R±10% 0805 Multilayer Ceramic Capacitors MLCC- SMD/SMT ROHS	C1, C2, C3, C5, C6, C7, C8, C9, C14	CAP_SWD_0805	Cap-NP-100	g
0.1uF	100nF±10%50VX7R 0805 Multilayer Ceramic Capacitors MLCC- SMD/SMT RoHS	C4, C10, C11, C12, C13, C15, C16, C17, C18, C19, C20, C21, C22, C23	CAP_SMD_0805	Cap-NP-100	14
20pF	50V20pFNP0±5% 0805 Multilayer Ceramic Capacitors MLCC- SMD/SMT ROHS	C24, C25	CAP_SWD_0805	Cap-NP-100	2
LED RED SWID	20mA230mcd Colorless transparence - 20°C-485°C Positive post 615nm-630nm Red 120° 55mW2.3V 0805 Light Emitting Diodes (LED) ROHS	D1, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31	LED_SMD0805	LED_RED_SMD_0805	28
SMF6.0CA	Bidirectional 6V6.67V 10.3V19.4mA SOD- 123FLTVSRoHS 1620.100"(2.54mm)	D2, D3, D4	SOD-123	TVSSMF05CA SOD123	3
header168x22.54mm	Header Through Hole,P=2.54mm IDC Connectors ROHS	Л	Header IDC8x2 2.54mm through hold	header 8x2 JLN	1
CONN_2X3_2M54	CONN HEADER6POS .100 STR30AU	J2	HDR_2X3_2m54_7m62 x4m8x10m5	CONN 2X3 MALE 2.54MM	1
NAP_CODE	4 Header XHB 0.098"(2.50mm) Male Pin Through Hole Wire To Board / Wire To Wire Connector ROHS	J.	HDR4PIN2.5 XHB-4A	CON HDR4 PIN 1X4 2.5MM XHB-4A	1
mainled	FR4; 1.6mm; 1OZ; color MATTEBLACK; 2 layer; Silkscreen White;	PCB1		CON Housings 4PIN 1x4 XHB—4Y	1
10k	125mWThick Film Resistors 150V ±100ppm/°C±1% 10kΩ 0805 Chip Resistor - Surface Mount ROHS	R1, R2, R9, R12	RES_SWD_0805	Res0.3	4
4.7R	125mWThick Film Resistors 150V±1% ±200ppm/°C 4.7Ω 0805 Chip Resistor - Surface Mount ROHS	R3, R4, R5, R7, R8	RES_SMD_0805	Res0.3	5
120R	125mWThick Film Resistors 150V ±100ppm/°C±1% 120Ω0805 Chip Resistor - Surface Mount ROHS	R6	RES_SMD_0805	Res0.3	1
100k	125mWThick Film Resistors 150V ±100ppm/°C±1% 100kΩ 0805 Chip Resistor - Surface Mount ROHS	R10, R11	RES_SWD_0805	Res0.3	2
1M	1W1mΩ±50ppm/°C ±1%0805 Current Sense Resistors/Shunt Resistors ROHS	R13	RES_SMD_0805	Res0.3	1
470R	125mWThick Film Resistors 150V ±100ppm/°C ±1% 470Ω0805 Chip Resistor - Surface Mount ROHS	R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40	RES_SWD_0805	Res0.3	27
LM1117	Fixed 18V3.3V1.4V @ 1A SOT-223 Dropout Regulators (LDO) RoHS	U1	SOT223	LM1117	1
L7805CDT-TR	62dB@(120Hz) 1.5A Fixed 5V Positive electrode 35V DPAK Linear Voltage Regulators (LDO) ROHS	U2	DPAK_118_446_112X5 9_SMD	REG_35V_5V-1.5A- 7.5W-DPAK_1	1
ST3485EBDR	Transceiver RS485 1/1 200kbps SOIC- 8_150mil RS-485/RS- 422 ICS ROHS	UЗ	SOIC8	RS485 ST3485ESA	1
STM32F103C8T6	ARM®Cortex®M3 STM32F1 Microcontroller IC 32- Bit 72MHz 64KB (64Kx 8) FLASH 48-LQFP (7x7)	U4	LQFP- 48_19.6_393_58X11_S MD	IC_STM32F103C8T6	1
	Crystal 3.2x2.5mm	Y1	Crystal 3.2x2.5mm	Crystal FL08000008Q	