

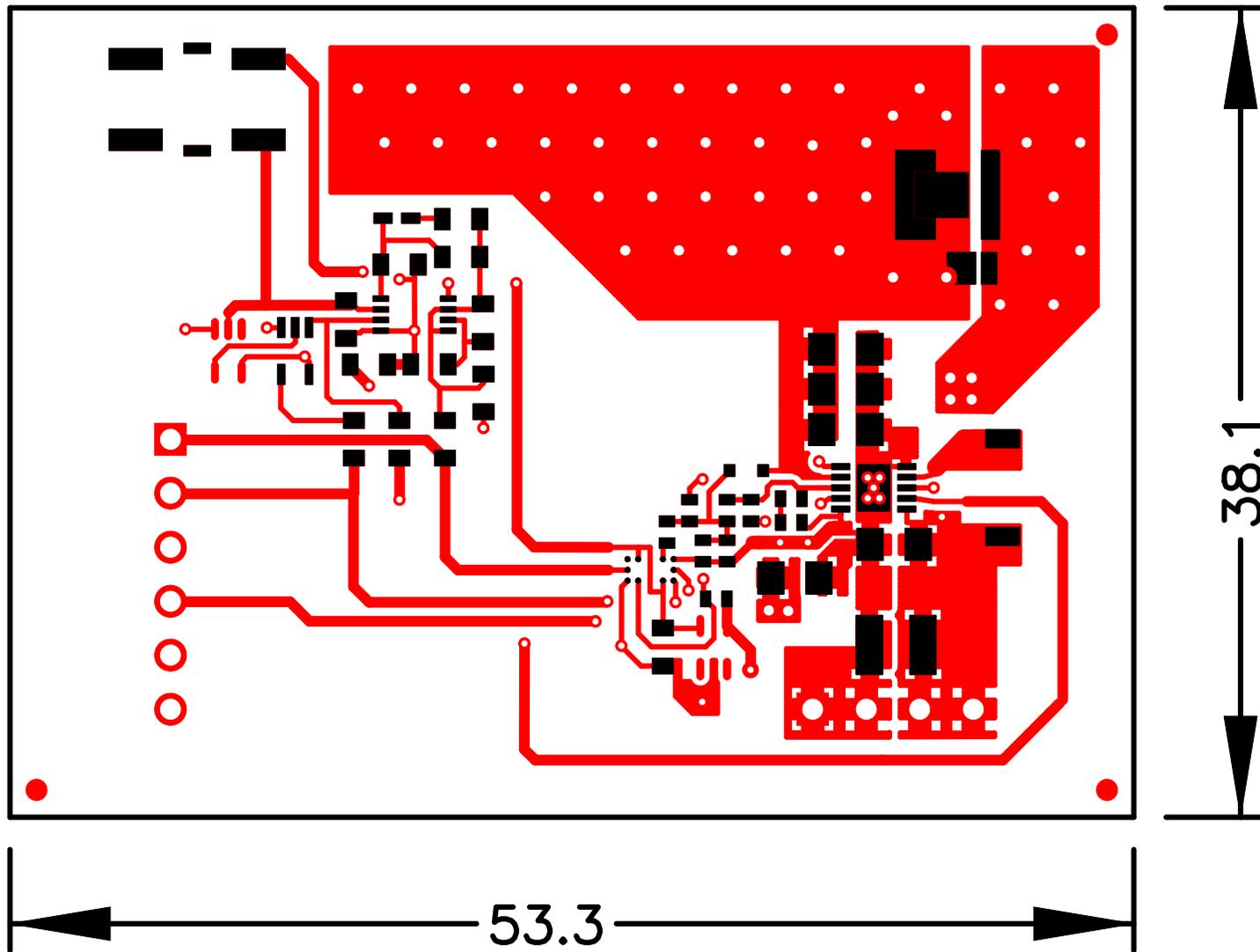
TORCHE	FLASH-LIGHT	R14	R11	R12	R13	R15	R16	C9	C7	L1
150mA	400mA	2.7R	120kR	100kR	6.8kR	6.8kR	6.8kR	EQ	EQ	VLF3012-4R7
150mA	750mA	1.8R	180kR	100kR	4.7kR	8.2kR	3.3kR	EQ	EQ	VLF5014AT-4R7
200mA	750mA	1.2R	82kR	100kR	4.7kR	8.2kR	6.8kR	EQ	EQ	VLF5014AT-4R7
150mA	1000mA	1.2R	147kR	100kR	4.7kR	15kR	3.9kR	EQ	EQ	VLF5014AT-4R7

Title WHITE LED FLASH-LIGHT REFERENCE DESIGN		
Size A3	Number	Rev A
Date 12-Jan-2005	Drawn by VAUCOURT	
Filename	Sheet 1 of 1	

TPS61020_CURRENT_REG_FLASHLIGHT_EVM_BRD#1 BOM

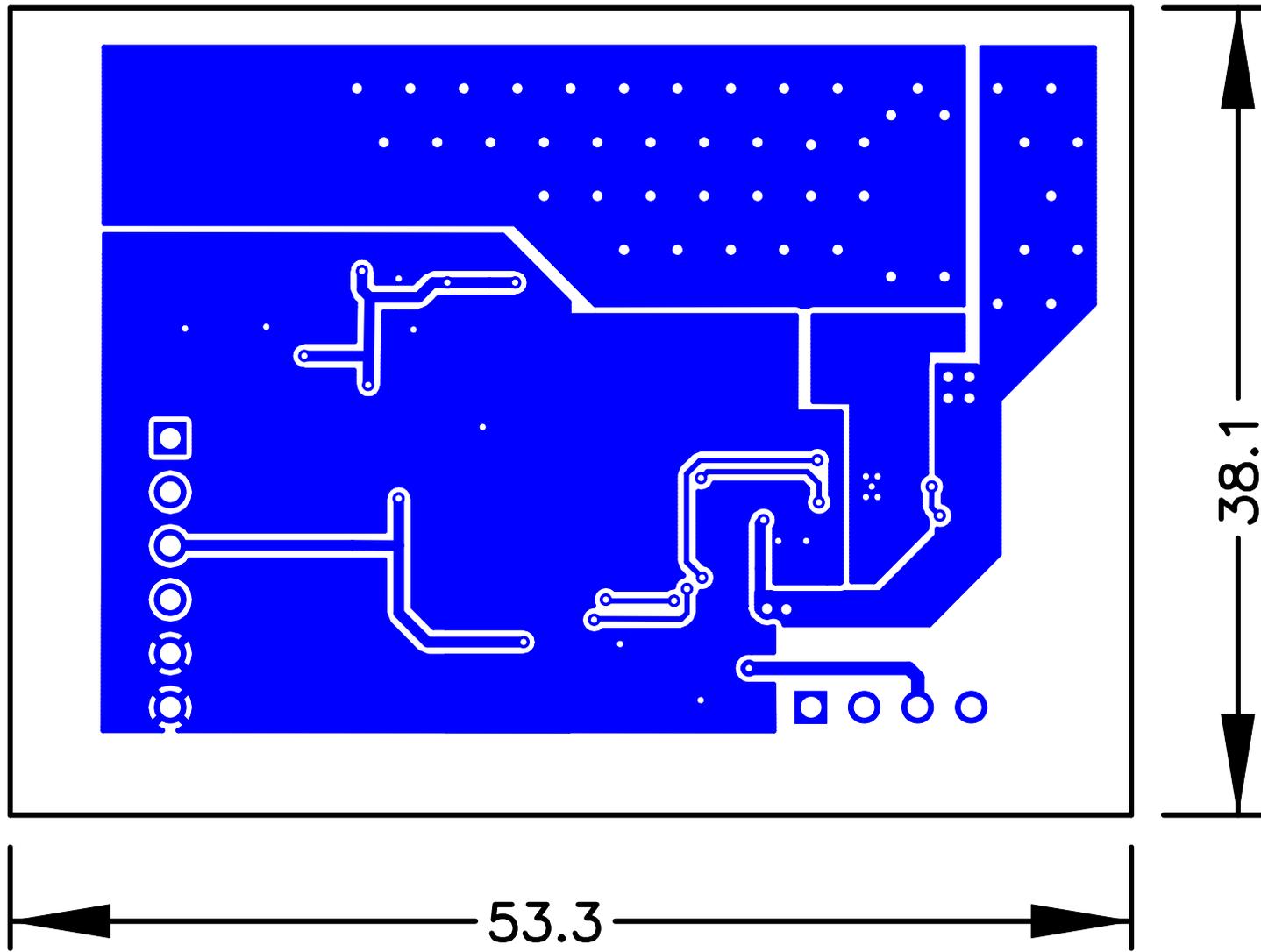
COUNT	RefDes	DESCRIPTION	SIZE	MFR	Part Number	AREA
1	C1	Capacitor, Ceramic, 2.2-uF, 6.3-V, X5R, 10%	603	TDK	C1608 X5R 0J 225KT	5650
1	C10	Capacitor, Ceramic, 22-uF, 6.3-V, X5R, 10%	1210	TDK	C3225 X5R OJ 226KT	83,600
1	C11	Capacitor, Ceramic, 1-uF, 16-V, X7R, 10%	603	TDK	C2012 X7R 1C 105K	5650
2	C2, C4	Capacitor, Ceramic, 100-nF, 50-V, X7R, 10%	603	TDK	C1608 X7R 1H 104K	5650
3	C3, C5, C7	Capacitor, Ceramic, 22-uF, 6.3-V, X5R, 20%	805	TDK	C2012 X5R 0J 226 MTJ	10560
1	C6	Capacitor, Ceramic, 10-uF, 6.3-V, X7R, 20%	805	TDK	C2012X5R0J106M	10560
1	C8	Capacitor, 1-nF, 50-V, X7R,	402	Std	Std	2800
1	C9	Capacitor, 100-nF, 10-V, X5R, 10%	402	TDK	C1005 X5R 1A 104K	2800
1	D2	Diode, LED, White, vv-V, yy-mcd,	1210	NOT USED	OSRAM_ENG ?	24976
1	D3	Diode, Flash, 1amp, Vfwd 3.9V	.065*.080	Lumileds Lighting	LXCL-PWF1	5200
1	D4	Diode, Schottky, 100mA, 30V	VMD2		RB520G-30	4752
1	D6	Diode, Zener, 5.6V, 5mA	VMD2	Rohm	VDZ xxB	21,500
1	J1	Header, 4-pin, 100mil spacing, (36-pin strip)	0.100 x 4	Sullins	PTC36SAAN	45100
1	J2	Header, 6-pin, 100mil spacing, (36-pin strip)	0.100 x 6	Sullins	PTC36SAAN	67100
1		Shunt, 100-mil, Black	0.100	3M	929950-00	
1	L1	Inductor, SMT, 4.7-uH, yy-mA, zz-milliohms	0.177 x 0.185	TDK	VLF5014AT-4R7	51,660
1	R1	Resistor, Chip, 2.2M-Ohms, 1/16-W, 1%	603	Std	Std	9100
1	R11	Resistor, Chip, 82K-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	R13	Resistor, Chip, 4K7-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	R14	Resistor, Chip, 1R2-Ohms, 1/10W, 1%	805	Std	Std	15300
1	R15	Resistor, Chip, 8.2K-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	R16	Resistor, Chip, 6K8x-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	R17	Resistor, Chip, 1M-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	R2	Resistor, Chip, 220K-Ohms, 1/16-W, 1%	603	Std	Std	9100
1	R22	Resistor, Chip, 100K-Ohms, 1/16-W, 1%	603	Std	Std	9100
1	R23	Resistor, Chip, 1M-Ohms, 1/16-W, 1%	603	Std	Std	9100
3	R24, R25, R26	Resistor, Chip, 0-Ohms, 1/16-W, 1%	603	Std	Std	9100
1	R4	Resistor, Chip, 10K-Ohms, 1/16-W, 1%	402	Std	Std	2800
2	R5, R12	Resistor, Chip, 100K-Ohms, 1/16-W, 1%	402	Std	Std	2800
1	SW1				959730 bei Farnell	
1	U1	IC, Dual 2-Input NAND Gate With Schmitt-Trigger Inputs	VSSOP-8	TI	SN74LVC2G132DCU	21,390
1	U4	IC, Single 2-Input Positive-OR Gates	CSP-5	TI	SN74LVC1G32YEPR	5984
1	U6	IC, Single Buffer/Driver With Open-Drain Output	CSP-5	TI	SN74LVC1G07YEPR	19,500
1	U8	IC, Qudruple 2-Input Positive-OR Gates	SC-70	TI	SN74AUC1G32DCKR	18,600
1	U9	IC, Single Schmitt-Trigger Inverter	DCK-5	TI	SN74LVC1G14DCK	19,500
1	--	PCB, 53.3 mm x 38.1 mm x 1 mm		Any	TPS61020 FLASH	

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

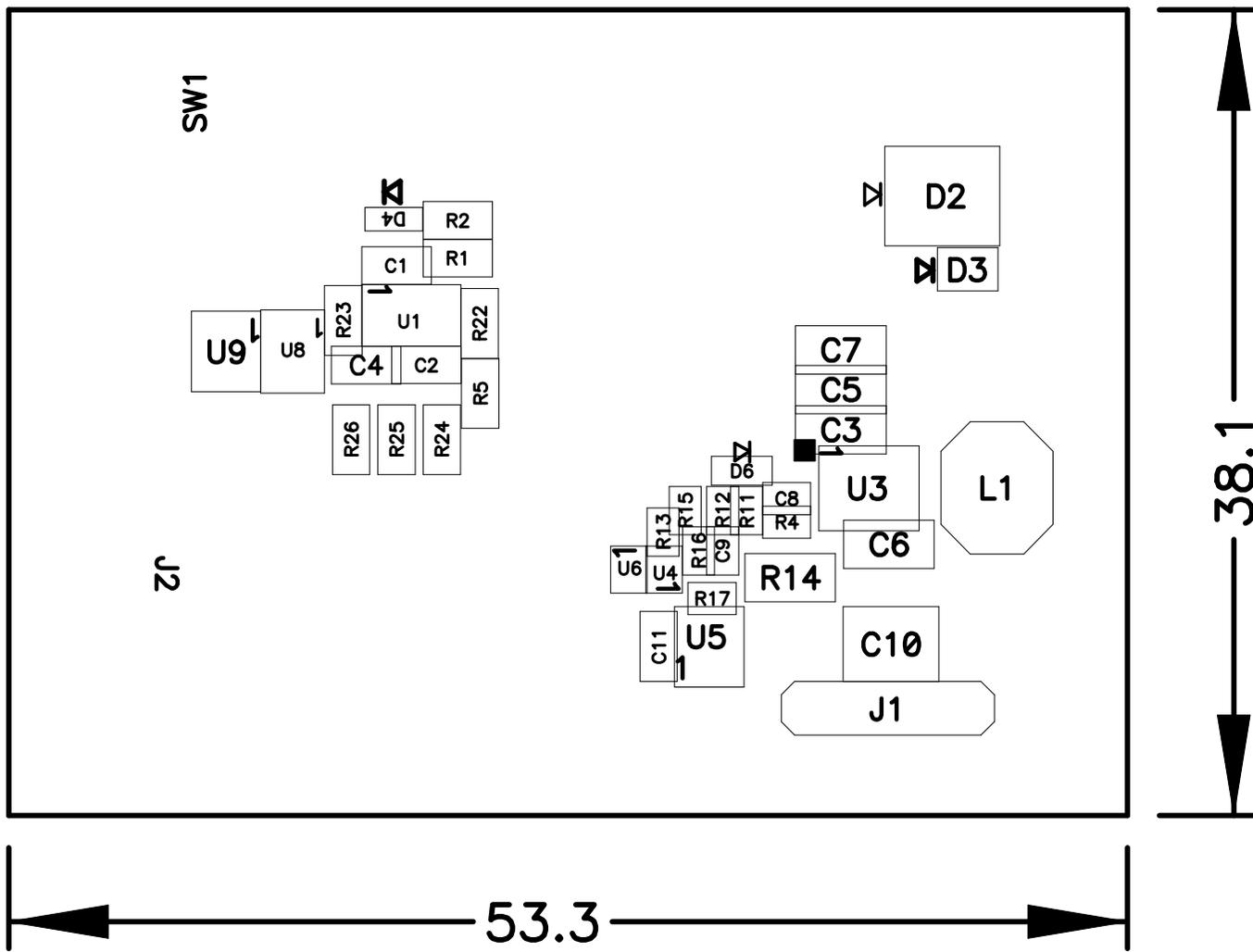


LAYER 1

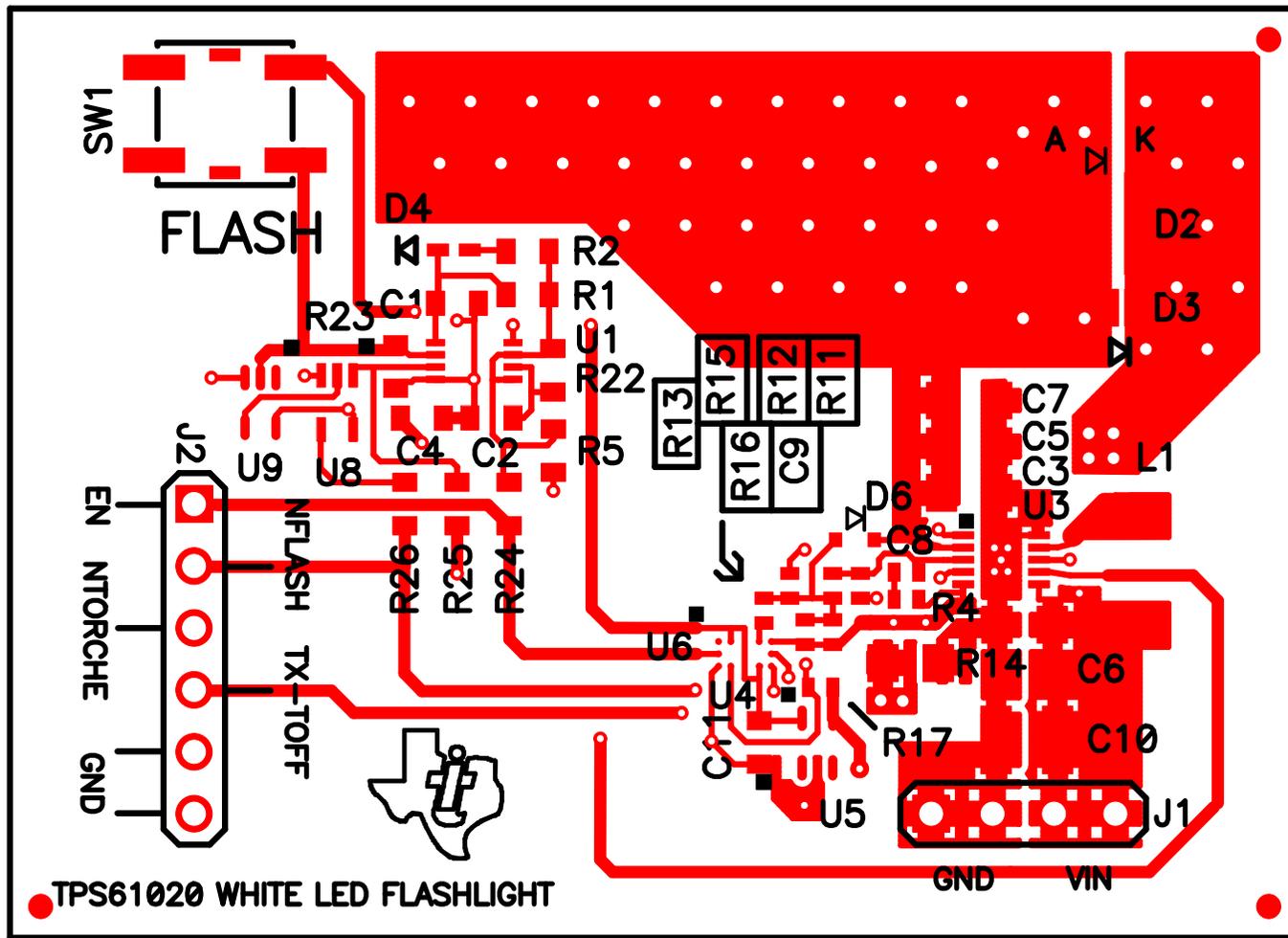
PASTE 1



LAYER 2



TEXAS INSTRUMENTS TPS61020 white led flashlight TOP ASSY



LAYER 1

SILK 1

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