

# TDHBG2500P100-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Package	Part Number	Manufacturer
U3	1		74LVC1G17DBV	SOT23-5	SN74LVC1G17DBVR	Texas Instruments
D1, D4, D5	3		DIODE-D0-214AC	D0-214AC	ES1J	Fairchild
FB1, FB2	2	300Ω	FB0603	603	MMZ1608S301ATA00	TDK
FB3, FB4, FB5, FB6	2	30Ω	FB0805	805	BLM21SN300SZ1D	Murata
JP1, JP2	2		JP2E	JP2	68001-403HLF	FCI
J2, J3, J5, J7	4		KEYSTONE_7691	KEYSTONE_7691	7691	Keystone
LED1, LED2, LED3	3		LEDCHIP-LED0805	CHIP-LED0805	SML-211UTT86	Rohm
U1	1		LT3082	SOT223-3	LT3082EST#PBF	Linear Technology
J1	1		PJ-002AH	PJ-002AH	PJ-002AH	CUI
LDS, LGS	2		TEKTRONIX-PCB	TEKTRONIX-PCB	131-4353-00	Tektronix
C7	1	0.1μF	C-EUC1812	C1812	C1812V104KDRACTU	Kemet
C10, C11, C12, C14, C20, C21, C22	7	0.1μF	C-USC0603	C0603	06033C104JAT2A	AVX
C8, C16, C17	3	0.1μF	C-USC2225K	C2225K	VJ2225Y104KXGAT	Vishay
R15	1	0Ω	R-US_R0603	R0603	RC0603FR-070RL	Yageo
R16, R23	2	20Ω	R-US_R1206	R1206	RNCP1206FTD20R0	Stackpole
R9, R12	2	0Ω	R-US_R1206	R1206	ERJ-8GEYOR00V	Panasonic
R4	1	10Ω	R-US_R0805	R0805	ERJ-P06J100V	Panasonic
R14	1	100kΩ	R-US_R0603	R0603	ESR03EZPJ104	Rohm
C19, C23	2	100pF	C-USC0603	C0603	06035A101FAT2A	AVX
R3	1	10MΩ	R-US_R1206	R1206	HVC1206T1005JET	Stackpole
R7, R11	2	10kΩ	R-US_R0603	R0603	ERJ-3GEYJ103V	Panasonic
C13, C15	2	10μF	C-EUC0805	C0805	C0805C106M4FACTU	Kemet
R8, R10	2	1kΩ	R-US_R0603	R0603	RC0603FR-071KL	Yageo
C2	1	1μF	C-EUC0805	C0805	CC0805ZRY5V8BB105	Yageo
C3	1	2.2μF	C-EUC0805	C0805	C2012X5R1E225K125AC	TDK
C1	1	22μF	C-USC1206	C1206	CL31A226MOCLNNC	Samsung
R13	1	2kΩ	R-US_R0805	R0805	RC0805FR-072KL	Yageo
C4, C5, C6, C24	4	4.7nF	C-EUC1206	C1206	C1206C472KDRACTU	Kemet
R1, R5, R6	6	4.99kΩ	R-US_R1206	R1206	RMCF1206FT4K99	Stackpole
R17, R18, R19, R20, R21, R22	6	560kΩ	R-US_R0805	R0805	ESR10EZPJ564	Rohm
R2	1	499kΩ	R-US_R1206	R1206	RMCF1206FT499K	Stackpole
C9, C18	2	10μH	10uH	EPCOS_B32674	B32794D2106K	Epcos
U4, U5	2		74AHC1G86DBV	SOT23-5	SN74AHC1G86DBVR	Texas Instruments
D2, D3	2		BAT54	SOT23	BAT54W	NXP
J4, J6	2		BU-SMA-G	BU-SMA-G	5-1814832-1	TE Connectivity
U\$3	1	460μH	Inductor		CWS-1MP-12640	CWS
HS1	1		HEATSINKC220-050-2AE		C220-050-2AE	Ohmite
U2	1		SI8230	SOIC16N	SI8230BB-D-IS	SiLabs
Q1, Q2	2	72mΩ	TPH_TO220VERT_TRI	TO-220	TPH3212PS	Transphorm
	2		Thermal pad between TPH3212 and heatsink		SP2000-0.015-00-54	Bergquist
	2		4-40 screw		9900	Keystone
	2		Nylon washer shoulder		3049	Keystone
	1	12V	Adaptor		TRG10R120-11E03-Level-VI	Cincon
	4		Bumper cylin 0.312"		SJ61A1	3M

## TDHBG2500P100-KIT Bill of Materials (BOM)

---

Designator	Qty	Value	Description	Package	Part Number	Manufacturer
			dia blk			