

BILLOFMATERIALS BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	Area
1	C1	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	STD	STD	
1	C15	100pF	Capacitor, Ceramic, 50V, COG, 10%	0603	STD	STD	
1	C16	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	STD	STD	
1	C17	6800pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	STD	STD	
2	C2, C3	22u	Capacitor, Aluminum, SM, ±20%, vvV,	0.748X 0.748 in	EEV-EB2V220SM	Panasonic	
1	C21	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	STD	STD	
1	C22	22uF	CAP ALUM 22UF 25V 20% RADIAL	6.3x11 mm	UVZ1E220MDD	Nichicon	
1	C29	220pF	CAP CER 220PF 250VAC X1Y2 RAD	7.00 Dia mm	CS70-B2GA221KYN	TDK	
1	C4	1 uF	Capacitor, Film 305 V, ± 20%	0.433 x 1.240 in	B32924C3105M	Epcos	
2	C5, C8	100uF	CAP ALUM 100UF 25V 20% RADIAL	6.3x11 mm	EKY-250ELL101MF1	United Chemi-Con	
1	C6	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	STD	STD	
1	C7	100uF	Capacitor, Alum Electrolytic, 25V, -40 to +85C, ±20%	6.3x11 mm	STD	STD	
1	C9	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	Std	STD	
2	D1, D3	B1100-13-F	Diode, Schottky, 1-A, 100-V	SMA	B1100-13-F	Diode Inc	
1	D2	1N4148	Diode, Signal, 300-mA, 75-V, 350-mW	SOD-123	1N4148W-7-F	Diodes	
1	D4	1SMB5953BT3	DIODE ZENER 150V 3W SMB	SMA	1SMB5956BT3	Diodes	
2	D5, D12	1N4007	RECTIFIER 1000V 1A DO-41	DO-41	STD	Diodes	
1	D6	1SMB5953BT3	DIODE ZENER 150V 3W SMB	SMA	1SMB5953BT3	Diodes	
1	L1	1mH	Inductor, Power, 0.25A, 6 Ohms	6.00 Dia mm	7447462102	Würth Elektronik	
1	Q1	FQD2N100TM	MOSFET N-CH 1000V 1.6A DPAK	DPAK	FQD2N100TM	Toshiba	
1	R1	1.4k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
4	R10, R11, R18, R19	510k	Resistor, 1/4 watt, 5%	1206	STD	STD	
1	R12	MURA160T3	DIODE ULTRA FAST 1A 600V SMA	SMA	MURA160T3	ON Semiconductor	
1	R13	2k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	R14	10k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	R15	1k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	R16	2.61k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
3	R17, R20, R21	332k	Resistor, 1/4 watt, 5%	1206	STD	STD	
1	R2	10	Resistor, Chip, 1/16W, 5%	0805	Std	Std	
1	R22	2k	Resistor, Chip, 1W, 5%	2010	Std	Std	
3	R23, R24, R25	52.3	Resistor, 52.3illiOhm, 1W, yy%	2512	STD	STD	
1	R3	1	Resistor, Chip, 1W, 5%	2010	Std	Std	
1	R4	DNP	Resistor, Chip, 1W, 5%	2010	Std	Std	
1	R5	10	Resistor, Chip, 1/16W, x%	0805	Std	Std	
1	R6	2	Resistor, Chip, 1/8W, 5%	0805	Std	Std	
1	R7	50.5k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	R8	15.8k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	R9	100k	Resistor, Chip, 1/16W, 1%	0603	STD	STD	
1	T1	6.6 mH	Transformer, ±10%	17X19 mm	750815039	Würth Elektronik	
2	TP1, TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 in	5000	Keystone	
2	TP2, TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 in	5001	Keystone	
2	TP4, TP5	5012	Test Point, White, Thru Hole	0.125 x 0.125 in	5012	Keystone	
1	U1	UCC28600D	IC, Quasi-Resonant Flyback Green Mode Controller	SO8	UCC28600D	TI	
1	U4	FOD817A	IC, Optocoupler, 5300-V, 50-600% CTR	0.380 x 0.180 in	FOD817A	Fairchild Semiconductor	
1	U5	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI	

- 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.

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