

Designator	Description	Manufacturer	PartNumber	Quantity
C1	CAP, FILM, 0.022uF, 310VAC, 20%, Radial	Vishay BC Components	BFC233820223	1
C2	CAP, CERM, 0.1uF, 630V, +/-10%, X7R, Radial	TDK Corporation	FK22X7R2J104K	1
C3	CAP, CERM, 0.1uF, 630V, +/-10%, X7R, Radial	TDK Corporation	FK22X7R2J104K	1
C4	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C104KA01D	1
C5	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C104KA01D	1
C6	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 0805	MuRata	GRM21BR60J226ME39L	1
C7	DLP	N/A	N/A	1
C8	CAP, CERM, 2.2uF, 25V, X7R, +/-20%, 0805	Murata	GCM21BR71E225MA73L	1
C9	CAP, CERM, 22uF, 25V, X7R, +/-10%, 1210	Murata	GRM32ER71E226KE15L	1
C10	CAP, FILM, 0.033uF, 305VAC, 20%, Radial	EPCOS	B32921C3333M	1
C11	CAP, Aluminum, 470uF, 50V, +/-20%, 12.5mm x 20mm	Panasonic	EEU-FR1H471	1
D1	Diode, Switching-Bridge, 600V, 0.8A, MiniDIP	Diodes Inc	HD06-T	1
D2	Diode, Zener, 3.3V, 200mW, SOD-323	Diodes Inc.	MMSZ5226BS-7-F	1
D3	Diode, Ultrafast, 100V, 0.25A, SOD-323	NXP Semiconductor	BAS316,115	1
D4	Diode, Ultrafast, 300V, 0.225A, 50nS, SOD-323	Diodes	BAV3004WS	1
D5	Diode, FAST, 600V, 2A, SMA	STMicroelectronics	STTH2R06A	1
F1	Fuse, 1A, 250V, TH	SCHURTER	8020.0514.PT	1
L1	Inductor, 4700uH, 240mA, 9.5 ohm max, Radial	Würth Electronics	744772472	1
L2	Inductor, 4700uH, 240mA, 9.5 ohm max, Radial	Würth Electronics	744772472	1
L3	Coupled Inductor, 195uH, EE16	WE-Midcom	750341763,Rev03	1
Q1	MOSFET, N-CH, 800V, 0.3A, TO-92	STMicroelectronics	STQ1NK80ZR-AP	1
Q2	MOSFET, N-CH, 650V, 5A, DPAK	STMicroelectronics	STD7NM60N	1
R1	Res, 47ohm, ± 5%, 1W, Axial	Panasonic	ERG-1SJ470	1
R2	DLP	N/A	N/A	1
R3	Res, 330ohm, ± 5%, 1W, Axial	Panasonic	ERG-1SJ331	1
R4	DLP	N/A	N/A	1
R5	Res, 910ohm, ± 5%, 1W, Axial	Panasonic	ERG-1SJ911	1
R6	RES, 280k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603280KFKEA	1
R7	RES, 634k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603634KFKEA	1
R8	RES, 412k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW1206412KFKEA	1
R9	RES, 412k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW1206412KFKEA	1
R10	RES, 412k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW1206412KFKEA	1
R11	RES, 412k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW1206412KFKEA	1
R12	RES, 100 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW0805100RFKEA	1
R13	RES, 3.01k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08053K01FKEA	1
R14	RES, 10 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310R0JNEA	1
R15	RES, 10.0 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080510R0FKEA	1
R16	RES, 332k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603332KFKEA	1
R17	RES, 33.2k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060333K2FKEA	1
R18	RES, 75m ohm, 1%, 0.5W, 1210	Rhom	MCR25JZHFSR075	1
R19	RES, 20k ohm, 5%, 0.25W, 1206	Vishay-Dale	CRCW120620K0JNEA	1
RT1	RES, 200k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603200KFKEA	1
U1	Phase Dimmable, Primary Side Power Regulated PFC Flyback Controller for LED Lighting	Texas Instruments	LM3447	1
VR1	Varistor, 275VAC, 369VDC, 23J, 7mm dia., Radial	EPCOS	S07K275E2	1

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

Products

Audio	www.ti.com/audio
Amplifiers	amplifier.ti.com
Data Converters	dataconverter.ti.com
DLP® Products	www.dlp.com
DSP	dsp.ti.com
Clocks and Timers	www.ti.com/clocks
Interface	interface.ti.com
Logic	logic.ti.com
Power Mgmt	power.ti.com
Microcontrollers	microcontroller.ti.com
RFID	www.ti-rfid.com
OMAP Applications Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

Applications

Automotive and Transportation	www.ti.com/automotive
Communications and Telecom	www.ti.com/communications
Computers and Peripherals	www.ti.com/computers
Consumer Electronics	www.ti.com/consumer-apps
Energy and Lighting	www.ti.com/energy
Industrial	www.ti.com/industrial
Medical	www.ti.com/medical
Security	www.ti.com/security
Space, Avionics and Defense	www.ti.com/space-avionics-defense
Video and Imaging	www.ti.com/video

TI E2E Community

e2e.ti.com