

Reference	Description	Value	Voltage Rating	Part Name	Manufacturer
C1	Capacitor, Film, 310Vac ±5%, Class X2	0.047 uF	310Vac	BFC233920473	Vishay
C10	DLP	DLP	DLP	DLP	DLP
C11	Capacitor, Ceramic,	10uF	50V	GRM32ER71H106KA12L	Murata
C12	Capacitor, Ceramic,	4.7uF	10V	GRM21BR71A475KE51	Murata
C2	DLP	DLP	DLP	DLP	DLP
C3-6	Capacitor, Ceramic,	0.1uF	630V	C3225X7T2J104K	TDK
C7-8	Capacitor, Alum Electrolytic, 100V, -55 to +105 °C, ±20%	100 uF	100V	UHE2A101MPD	Nichicon
C9	Capacitor, Ceramic,	2.2uF	100V	GRM32ER72A225KA35L	Murata
D1	Bridge Rectifier SMD, 600V, 0.5A		600V	HD06-T	Diodes
D2	DIODE SWITCH 300V 400MW SOD123		300V	BAV3004W-7-F	Diodes
D3	Diode 75V, 0.15A, SOD-523F		75V	CDSU4148	Comchip
D4	Diode UF, 600V, 3A, SMB		600V	STTH3R06	ST
F1	FUSE 500MA 250VAC AXIAL SLOW	0.5A	250VAC	0677.500MXE	Littelfuse
L1-2	DLP	DLP	DLP	DLP	DLP
L3	Power Inductors 3900uH 140mA	3.9mH		RCH895NP-392K	Sumida
L4	DLP	DLP	DLP	DLP	DLP
Q1	MOSFET N-CH 600V 8A IPAK		600V	STU10NM60N	ST
R10	RES 12.4K OHM 1/10W 1% 0603 SMD	12.4k		CRCW060312K4FKEA	Vishay
R11 R17-18 R21-22	RES 0.0 OHM 1/8W 0805 SMD	0R		CRCW08050000Z0EA	Vishay
R1-2	RES 15 OHM 1W 5% METAL OXIDE	15		ERG-1SJ150	Panasonic
R14	Resistor, 0.5OHM, 1/2 watt, ± 1%, 1206, SMD	0.5R		LR1206-R50FI	WELWYN
R15	RES 14.3 OHM 1/8W 1% 0805 SMD	14.3		CRCW080514R3FKEA	Vishay
R16	RES 750K OHM 1/4W 1% 1206 SMD	750k		CRCW1206750KFKTA	Vishay
R19	RES 0.0 OHM 1/10W 0603 SMD	0R		CRCW06030000Z0EA	Vishay
R20	DLP	DLP	DLP	DLP	DLP
R3-5	RES 100K OHM 1/4W 1% 1206 SMD	100k		CRCW1206100KFKTA	Vishay
R6	RES 10.0 OHM 1/8W 1% 0805 SMD	10R		CRCW080510R0F	Vishay
R7	RES 20.0K OHM 1/4W 1% 1206 SMD	20k		CRCW120620K0FKEA	Vishay
R8	RES 4.87K OHM 1/10W 1% 0603 SMD	4.87K		CRCW06034K87FKEA	Vishay
R9	RES 66.5K OHM 1/10W 1% 0603 SMD	66.5k		CRCW060366K5FKEA	Vishay
T1-2	Transformer			750341346	WE
U1	TPS92310 AC/DC controller for LED driver			TPS92310	Texas Instruments

VDR1	VARISTOR 300V RMS 7MM RADIAL	300V		S07K300E2	EPCOS
------	------------------------------	------	--	-----------	-------

Qty
1
0
1
1
0
4
2
1
1
1
1
1
1
1
0
1
0
1
1
5
2
1
1
1
1
0
3
1
1
1
1
1
2
1

1

## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

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

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

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI 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 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. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

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

TI products are not authorized for use in safety-critical applications (such as life support) where a failure of the TI product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use. Buyers represent that they have all necessary expertise in the safety and regulatory ramifications of their applications, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of TI products in such safety-critical applications, notwithstanding any applications-related information or support that may be provided by TI. Further, Buyers must fully indemnify TI and its representatives against any damages arising out of the use of TI products in such safety-critical applications.

TI products are neither designed nor intended for use in military/aerospace applications or environments unless the TI products are specifically designated by TI as military-grade or "enhanced plastic." Only products designated by TI as military-grade meet military specifications. Buyers acknowledge and agree that any such use of TI products which TI has not designated as military-grade is solely at the Buyer's risk, and that they are solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI products are neither designed nor intended for use in automotive applications or environments unless the specific TI products are designated by TI as compliant with ISO/TS 16949 requirements. Buyers acknowledge and agree that, if they use any non-designated products in automotive applications, TI will not be responsible for any failure to meet such requirements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

### Products

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

### Applications

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

TI E2E Community Home Page

[e2e.ti.com](http://e2e.ti.com)

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2012, Texas Instruments Incorporated