

Item	Qty	Reference	Value	Description	Size	Part Number	MFR
1	1	C8	1uF	Capacitor, Ceramic, 0.1uF, 10v, 10%, 0603	603	Std	std
2	1	C4	2.2uF/35V	CAP CER 2.2UF 35V 10% X5R 0603	603	Std	TDK
3	1	C6	NA	Capacitor, Ceramic, 470pF, 50V, 0603, 5%	603	Std	Std
4	2	C3 C5	270uf	CAP ALUM 270UF 6.3V 20% RADIAL	5mm*8mm	RF80J271MDN1PX	Nichicon
5	1	C9	NA	CAP ALUM 270UF 6.3V 20% RADIAL	5mm*8mm	RF80J271MDN1PX	Nichicon
6	1	D3	SMAJ150A	DIODE TVS 100V 400W BIDIR 5% SMA	SMA	SMAJ100CA	Littlefuse
7	1	D1	BAS21-03W	Diode, High-Speed Switching, 250-mA, 200-V	SOD-323	BAS21-03W	Infineon
8	1	D9	HD06	Bridge Rectifier, 600V, 0.8A, Glass Passivated, SMD	MINI DIP4	HD06	Diodes, Inc
9	1	D2	DFLR1600-7	DIODE STD REC 1A 600V POWERDI123	PowerDI 123	DFLR1600-7	Diodes
10	1	L1	470uH	CHOKE RF COATED 470UH 5% AXIAL		77F471J	Bourns Inc.
11	1	T1	EE13	EE13 Transformer		EE13	Würth
12	1	FR	1A, 250V	FUSE, 1A, 250V	R1/4WA	20T-010H	Hollyfuse
13	1	J2	jumper	10mm*0.6mm jumper			
14	1	R11	0R/0603	Resistor, Chip, 0R, 1/10W, 5%, 0603	603	Std	Std
15	4	R3 R5 R14 R16	1M/0603	Resistor, Chip, 1M, 1/10W, 1%, 0603	603	Std	Std
16	1	R10	1.2k/0603	Resistor, Chip, 2.4k, 1/10W, 1%, 0603	603	Std	Std
17	1	R4	22R/0603	Resistor, Chip, 22R, 1/10W, 5%, 0603	603	Std	Std
18	1	R9	30k/0603	Resistor, Chip, 33k, 1/10W, 1%, 0603	603	Std	Std
19	1	R9A	NA	Resistor, Chip, 620k, 1/10W, 1%, 0603	603	Std	Std
20	1	R7	NA	Resistor, Chip, 39k, 1/10W, 1%, 0603	603	Std	Std
21	1	R8	110k/0805	Resistor, Chip, 150k, 1/10W, 1%, 0603	603	Std	Std
22	1	R12	2	Resistor, Chip, 2R2, 1/8W, 1%, 0805	805	Std	Std
23	1	R13	NA	Resistor, 7R5, 1/8W, 1%, 0805	805	Std	Std
24	1	R1	10k/0805	Resistor, Chip, 10k, 1/8W, 5%, 0805	805	Std	Std
25	1	R2	11k	Resistor, Chip, 1/8W, 1%	805	Std	Std
26	1	R6	100	Resistor, Chip, 1/8W, 1%	805	Std	Std

27	1	R15	NA	Resistor, Chip, 1/4W, 1%, 1206	1206	Std	Std
28	1	D7	PDS1045-13	DIODE SCHOTTKY 45V 10A POWERDI5	PowerDI™ 5	PDS1045-13	Diodes
29	1	C1	KSH475M400S1A 5H1CK	CAP ALUM 4.7UF 400V 20% RADIAL	8mm(die.)x11mm(h ight)	KSH685M400S1A 5H1CK	Teapo
30	1	C2	KSH475M400S1A 5H1CK	CAP ALUM 4.7UF 400V 20% RADIAL	8mm(die.)x11mm(h ight)	KSH685M400S1A 5H1CK	Teapo
32	1	Q1	KSE13003H1AST U	TRANSISTOR NPN 400V 1.5A TO126	TO-126	KSE13003H1ASTU	Fairchild Semiconductor
33	1	U2	UCC28720D	IC, Constant Voltage, Constant Current PWM With Primary Side Regulation	SO-8	UCC28720D	TI
34	1	J3	B0H4400537	USB Connector		B0H4400537	yuanchuan

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