

Count	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
6	C2-6 C70	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
6	C10-12 C130 C300-301	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
1	C14	120uF	Capacitor, Aluminum, 10x16mm, 63V, 20%	16mm	EKZE630ESS121MJ16S	Nippon Chemi-Con
1	C15	330pF	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	TDK
3	C16-17 C103	1uF	Capacitor, Ceramic, 16V, X7R, 20%	603	C1608X7R1C105M	TDK
1	C18	470pF	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	TDK
3	C19 C90 C200	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H104K	TDK
2	C20 C304	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	TDK
1	C21	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H103K	TDK
1	C80	0.01uF	Capacitor, Ceramic, 100V, X7R	603	Std	Std
1	C100	220uF	Capacitor, Aluminum, 50V, 105C, 20%	0.63 inch	EKZE630ESS121MH20D	Nippon Chemi-Con
1	C102	100pF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H101K	TDK
1	C302	330pF	Capacitor, Ceramic, 100V, X7R	603	Std	Std
1	C303	68pF	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	TDK
1	D1	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	ON Semi
1	D3	MURB1520	Diode, Schottky Barrier Rectifier, 20A, 100V	D2PAK	MURB1520PBF	Vishay
1	D5	5.1V	Diode, Zener, 5.1-V	SOT23	BZX84C5V1LT1	ON Semiconductor
3	D6 D300-301	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
1	D101	15V	Diode, Zener, 15-V	SOT23	BZX84C15LT1	ON Semiconductor
1	D200	12V	Diode, Zener, 12-V, 225-mW	SOT23	BZX84C12LT1	ON Semi
2	J1-2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27" x 0.25"	ED1514	OST
1	L1	2.2uH	Inductor, SMT, 6A, 12milliohm	0.51x0.37 inch	DO3316P-222	Coilcraft
1	L300	1uH	Inductor, SMT, 9A, 9milliohm	0.51x0.37 inch	DO3316P-102	Coilcraft
2	Q1-2	Si7738DP	MOSFET, NChannel, 150V, 30A, 38 milliohm	PWRPAK S0-8	Si7738DP	Vishay
1	Q100	MMBT3906	Bipolar, PNP, 40-V, 200-mA	SOT23	MMBT3906LT1	On Semi
1	Q101	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q200	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q201	PBSS8110T	Bipolar, NPN, 100V, 1A	SOT23	PBSS8110T	NXP
2	R1-2	10k	Resistor, Chip, 1-W, 5%	2512	Std	Std
1	R3	49.9	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R4	300k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R5	47k	Resistor, Chip, 1/16W, 1%	603	Std	Std
5	R6 R18 R100 R200 R303	100k	Resistor, Chip, 1/16W, 1%	603	Std	Std
2	R7 R19	1M	Resistor, Chip, 1/16W, 1%	603	Std	Std
2	R9 R300	0.005	Resistor, Chip, 1-W, 1%	2512	Std	Std
1	R11	1MEG	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R12	32.4k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R13	3.01k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R14	20k	Resistor, Chip, 1/16W, 1%	603	Std	Std
3	R15 R22 R90	10k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R16	49.9k	Resistor, Chip, 1/16W, 1%	603	Std	Std

3	R70 R170 R301	1k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R101	20k	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R302	33	Resistor, Chip, 1-W, 5%	2512	Std	Std
1	T1	8.9 uH	Transformer, Custom, Flyback	27.5 x 28.0 mm	DCT24LQ-U0XH004	TDK
5	TP1 TP3-4 TP6-7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	TPS40210DGQ	IC, 4.5V-52V I/P, Current Mode Boos Controller	DGQ10	TPS40210DGQ	TI
2	U2 U4	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U3	TL103WAID	IC, Dual OpAmp With Internal Reference	SO8	TL103WAID	TI

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	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 Mobile Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

Applications

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
Transportation and Automotive	www.ti.com/automotive
Video and Imaging	www.ti.com/video

TI E2E Community Home Page

e2e.ti.com

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2011, Texas Instruments Incorporated