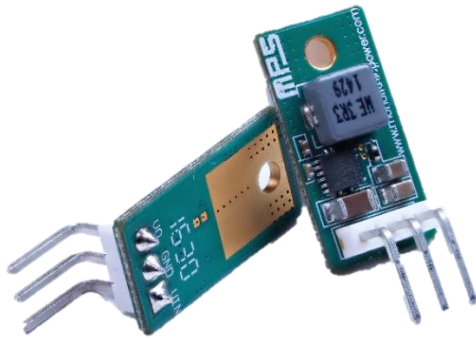
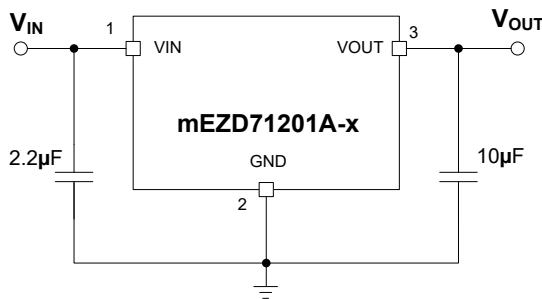




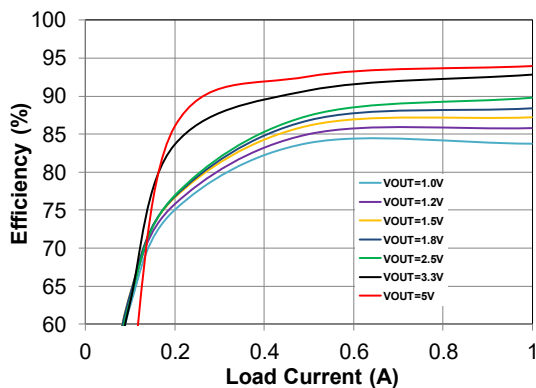
mEZ Product Options:

1. Ready-to-Use products
 2. Do-It-Yourself.
- Manufacture assistance is provided



Typical Application Circuit

Efficiency vs. Load Current
VIN=12V, VOUT = 1V - 5V



FEATURES

- 4.5V to 24V Wide Operating Input
- 1A Load Current
- Hiccup Short-Circuit Protection
- Over-/Under-Voltage Protection
- Over-Current Protection
- Over-Temperature Protection
- Open Design Files and BOM

ORDERING INFORMATION

Part Number	Input Voltage (V)	Output Voltage (V)	Output Current (A)
MEZD71201A-X	A - F: 4.5 - 24 G: 6.5 - 24	1, 1.2, 1.5, 1.8, 2.5, 3.3, 5	1

Output Voltage Options			
A = 1.0V	B = 1.2V	C = 1.5V	D = 1.8V
E = 2.5V	F = 3.3V	G = 5.0V	

mEZD712xx FAMILY PRODUCTS

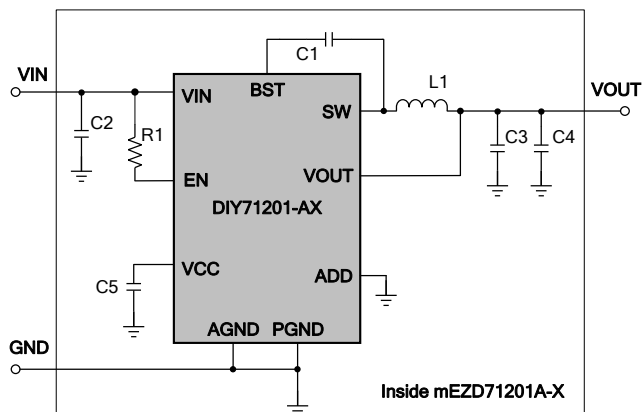
Part Number	Input Voltage (V)	Output Voltage (V)	Output Current (A)
mEZD71201A-X	4.5 - 24	1, 1.2, 1.5, 1.8, 2.5, 3.3, 5	1
mEZD71202A-X	4.5 - 24	1, 1.2, 1.5, 1.8, 2.5, 3.3, 5	2
mEZD71203A-X	4.5 - 16	1, 1.2, 1.5, 1.8, 2.5, 3.3	3
mEZD71210A-A	4.5 - 17	1	10

ELECTRICAL CHARACTERISTICS

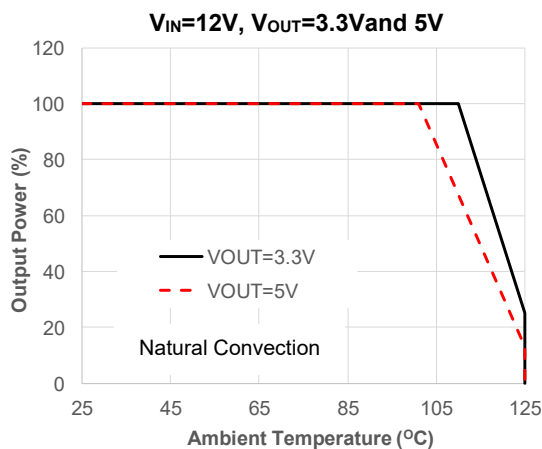
Input Voltage Range	VIN_MIN higher than VOUT by 1V	4.5 or 6.5 to 24V
Output Voltage Set Accuracy		±2.5% (Typ.)
Output Voltage Ripple	VIN= 12V, VOUT= 3.3V, Full Load	28mV
Line Regulation	VIN from MIN to MAX, VOUT= 3.3V	±1% (Typ.)
Load Regulation	IOUT from MIN to MAX, VOUT= 3.3V	±1% (Typ.)
Switching Frequency	Typical Switching Frequency	400kHz
Short-Circuit Protection	Short Output to Ground	Hiccup Mode
Operating Temperature Range		-40 to 85°C
Over-Temperature Protection	OTP	150°C
Rise Time	VOUT from 0% to 90%	0.75ms (Typ.)
Calculated MTBF	MIL-HDBK-217F	4185x10 ³ hrs

NOTE: All electrical characteristics are tested under 25°C ambient temperature, VIN=12V unless otherwise noted.

DO-IT-YOURSELF SCHEMATIC



POWER DERATING

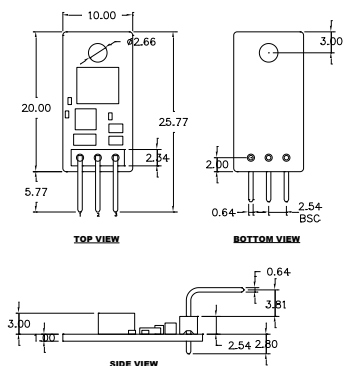


BILL OF MATERIALS

Item	Qty	RefDes	Value	Description	Package	Manufacturer	Manufacturer P/N
1	1	C1	0.22µF	Ceramic Cap., 16V, X5R	0402	muRata	GRM155R61C224KA12D
2	1	C2	4.7µF	Ceramic Cap., 50V, X7R	1206	muRata	GRM31CR71H475KA12L
3	2	C3, C4	22µF	Ceramic Cap., 10V, X7T/X5R	0805	muRata	GRM21BD71A226ME44L/ GRM21BR61A226ME51L
4	1	C5	1µF	Ceramic Cap., 10V, X5R	0402	muRata	GRM155R61A105KE01D
5	1	L1*	4.7µH	Indc 3.1A, DCR 45.6mΩ	5.5x5x3mm	Panasonics	ETQP3M4R7KVP
6	1	R1	499kΩ	Film Res., 1%	0402	Yageo	RC0402FR-07499KL
7	1	P1	3-pin	3-pin male connector, right angle	Bulk	MYIC	MPS010SRRA-3
8	1	U1		Synchronous Step-Down Converter	FCQFN3x3-16	MPS	DIY71201-AX**

* Or equivalent. ** -X Output voltage options (A: 1.0V, B: 1.2V, C: 1.5V, D: 1.8V, E: 2.5V, F: 3.3V, G: 5.0V)

PRODUCT PACKAGE AND DIMENSIONS



Pin	Designation	Function
1	VIN	Input Voltage
2	GND	Power Ground
3	VOUT	Output Voltage

NOTE:

Contact factory for different sizes of the boards (Quantity>2k).

For more information, Gerber files, and PCB layout, please contact
mEZsupport@monolithicpower.com