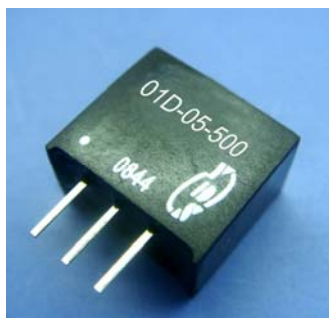




Non-Isolated Single Output Dc-Dc Converter



FEATURES:

- 3PIN SIP Package
- Pin-out compatible with LM78XX Linears
- UL94V-0 Package Material
- Operating Temperature: -40°C TO +85°C
- Efficiency up to 97%, Non isolated, no need for heatsinks
- Short circuit protection, Thermal shutdown



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Input Range	Output Voltage	Output Current	Efficiency	
	Vdc	Vdc	mA	Min. Vin(%)	Max. Vin(%)
01D-1R5-500	4.75-30	1.5	500	73	63
01D-1R8-500	4.75-34	1.8	500	82	71
01D-2R5-500	4.75-34	2.5	500	87	77
01D-3R3-500	4.75-34	3.3	500	91	81
01D-05-500	6.5-34	5.0	500	94	86
01D-6R5-500	8.0-34	6.5	500	95	88
01D-09-500	11-34	9.0	500	96	92
01D-12-500	15-34	12	500	97	94
01D-15-500	18-34	15	500	97	95

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±3	%
Short Circuit Protection	Continuous				
Line Regulation	1.5V to 6.5V		0.2	0.4	%
Line Regulation	9V to 15.5V		0.1	0.2	
Load Regulation	1.5V to 6.5V (10% To 100% F.L.)		0.4	0.6	%
Load Regulation	9V to 15.5V (10% To 100% F.L.)		0.25	0.4	%
Ripple & Noise (without Output Capacitor)	1.5V to 6.5V(BW=DC To 20MHz)		20	30	mVp-p
	9V to 15.5V(BW=DC To 20MHz)		30	40	mVp-p
Transient response setting time	50% load step change		350		us

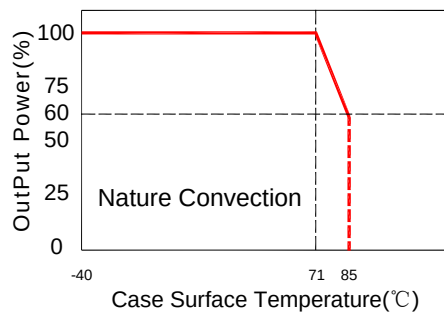
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency			330		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Non-Conductive Black Plastic				
Weight			2.0		g
Dimensions			11.6x7.6x10.4		mm
MTBF(+25°C)	using MIL-HDBK 217F		21098x10 ³		hours
MTBF(+71°C)	using MIL-HDBK 217F		4212x10 ³		hours

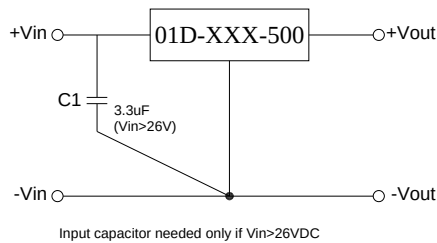


Non-Isolated Single Output Dc-Dc Converter

Temperature Derating Graph



Standard Application Circuit

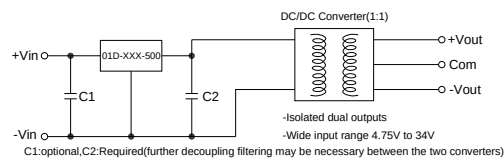


Add a blocking diode to Vout if current can flow backwards into the output, as this can damage the converter when it is powered down.
See Application Examples for details.

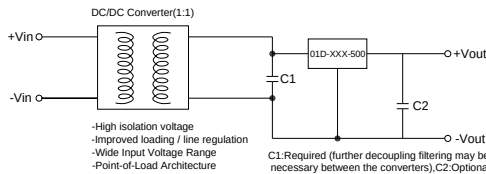
Application Examples

Part Number

High efficiency, isolated, dual unregulated outputs



Isolated (up to 6KV), wide Input range regulated output



01D - 05 - 500

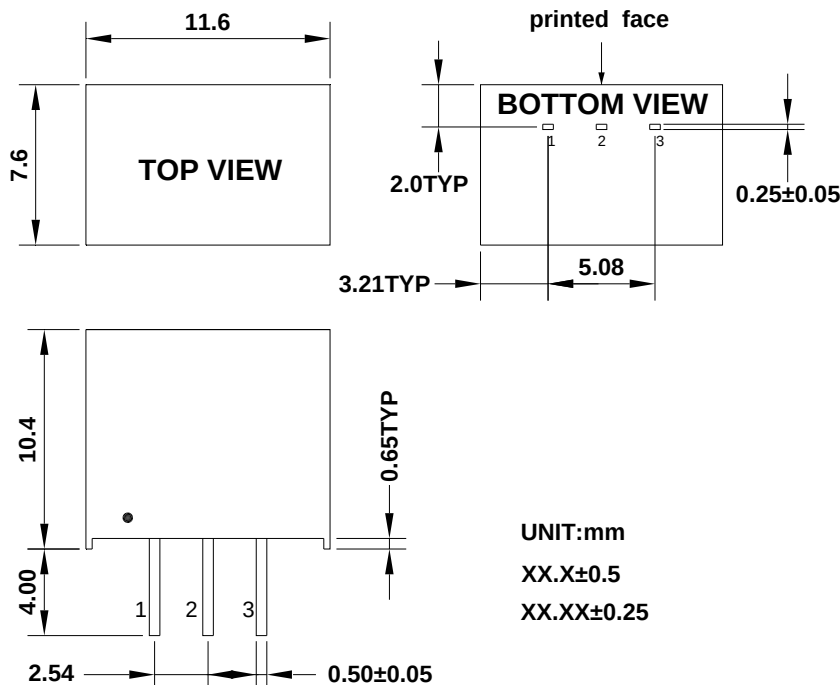
A B C

A:Series

B:Output Voltage

C:Output Current

Markings and Dimensions



PIN Connection

PIN	1	2	3
SINGLE	+Vin	GND	+Vout