

FEATURES :

- 3PIN SIP Package
- Pin-out compatible with LM78XX Linear
- Efficiency up to 92%, Non isolated, no need for heatsink
- Customized Solutions Available
- UL94V-0 Package Material
- Operating Temperature From -40°C To +85°C
- 3 Years Warranty
- Short circuit protection, Thermal Shutdown
- Wide input voltage ranges, Up To 72V

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(%)
08D-3R3-500	9 ~ 72	3.3	500	82	64
08D-05-500	9 ~ 72	5.0	500	87	70
08D-6R5-500	9 ~ 72	6.5	500	89	72
08D-09-500	14~ 72	9.0	500	90	79
08D-12-500	17 ~ 72	12	500	91	81
08D-15-500	21 ~ 72	15	500	91	81
08D-24-300	36 ~ 72	24	300	92	87

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Input Voltage Range	See table	9	48	72	V
Internal Input Filter	Capacitors			2.2	uF
No Load Input Current	Vin=48V	1	5	7	mA

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±3	%
Short Circuit Protection	Hiccup, automatic recovery				
Line Regulation	Vin=min to max at full load			±0.5	%
Load Regulation	10% To 100% F.L			±0.5	%
Ripple & Noise (without Output Capacitor)	10% TO 100% F.L BW=20MHz			60	mVp-p
Transient response setting time	25% load step change			500	us
Capacitive load				100	uF

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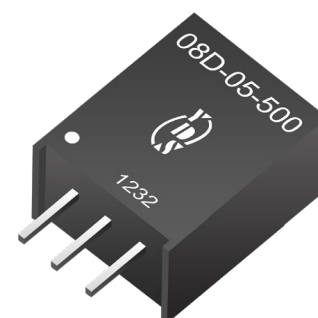
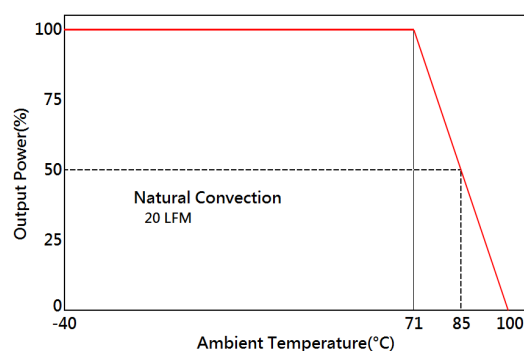


DC-DC Converter

08D-500 SERIES

Non-Isolated

Single Output

0.45" *0.3" *0.68"**Temperature Derating Graph**

www.yds.com.tw



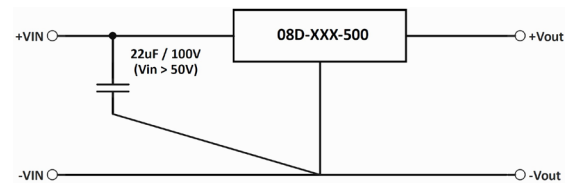
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Rev:1.2 2023/04/10

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency		150		500	KHz
Operating Temperature	With derating	-40		85	°C
Storage Temperature		-55		125	°C
Humidity	Non-Condensing			95	%
Cooling	Natural Convection (20LFM)				
Case material	Non-Conductive Black Plastic				
Potting Material	Silicone UL94V-0)				
Weight			4.0		g
Dimensions		11.5x8.5x17.5			mm
MTBF(+25°C)	using MIL-HDBK 217F	7395x10 ³			hours

Application Examples



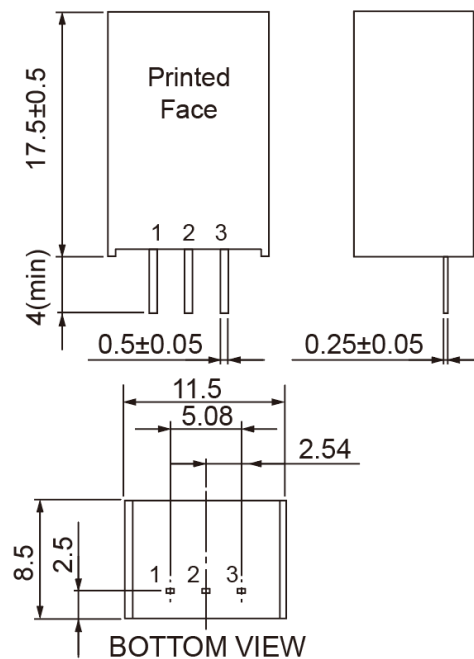
Input capacitor needed only if Vin > 50V

Part Number

08D - 05 - 500
A B C

- A : Series
- B : Output Voltage
- C : Output Current

Dimensions



Unit : mm Tolerance : XX.X±0.5 , XX.XX±0.25

PIN Assignment

PIN	1	2	3
Function	+Vin	GND	+Vout