

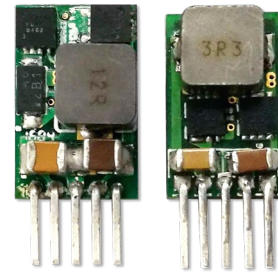
C01D-3A SERIES DC-DC Converter

Non-Isolated Single Output



FEATURES :

- Open frame packages
- Efficiency up to 95%, Non isolated, no need for heatsink
- Customized Solutions Available
- Remote Control: On/Off
- Operating Temperature From -40°C To +65°C
- 3 Years Warranty
- Adjustable output voltages
- Short circuit protection
- Wide Input Voltage Ranges 4.5~14VDC and 10~30VDC



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	(%)	Output Voltage (Vdc)
C01D-1206-3A	4.5-14	0.59-6.0	3000	92	3.3
C01D-2406-3A	10-30	3.0-6.0	3000	91	5.0
C01D-2415-3A	10-30	5.0-15	3000	95	12

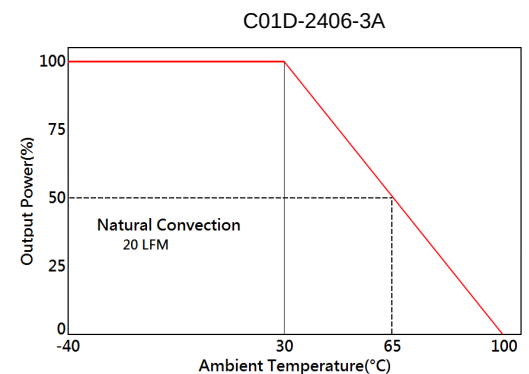
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Input Voltage Range	See table	4.5	12	30	V
Internal Input Filter	Capacitors		10		uF
No Load Input Current			30		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		±0.2		%
Load Regulation	0% To 100% F.L (Vo ≥ 2.5V)		±0.8		%
Current Limit			220		%
Ripple & Noise	100% F.L BW=20MHz			150	mVp-p
Dynamic load response (Recovery time)	25% load step change		120		us
Capacitive load	ESR > 1m ohm			500	uF

Temperature Derating Graph



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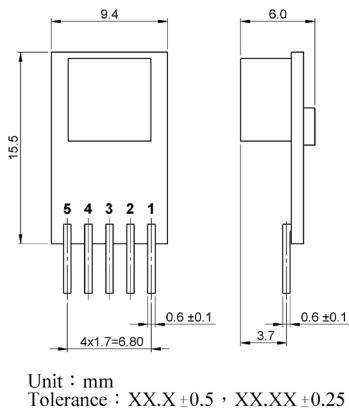


General Specifications

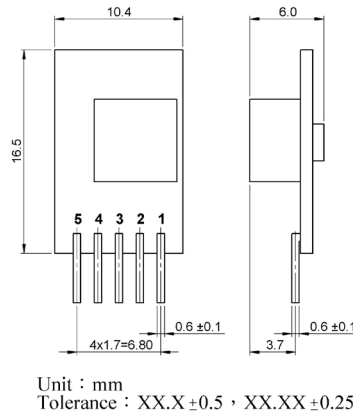
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency			300		KHz
Operating Temperature	With derating	-40		65	°C
Storage Temperature		-55		125	°C
Humidity	Non Condensing	5		95	%
Cooling	Natural Convection (20LFM)				
Case material	Open Frame				
Weight			2		g
Dimensions	C01D-1206-3A		15.5x9.4x6.0		mm
	C01D-2406-3A /C01D-2415-3A		16.5x10.4x6.0		mm
MTBF(+25°C)	Using MIL-HDBK 217F		4.4x10 ⁶		Hours

Dimensions

C01D-1206-3A



C01D-2406-3A/ C01D-2415-3A

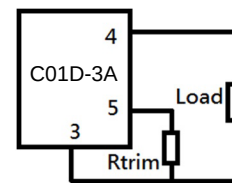


Part Number

$$\frac{C01D}{A} - \frac{24}{B} \frac{06}{C} - \frac{3A}{D}$$

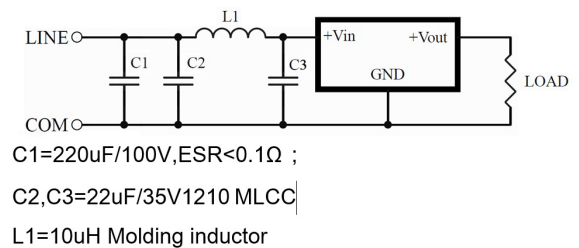
- A : Series
B : Input Voltage
C : Maximum Output Voltage
D : Output Current

Trim Applications



Part Number	R trim [KΩ]
C01D-1206-3A	1.18/(Vo-0.59)
C01D-2406-3A	11.2/(Vo-3)
C01D-2415-3A	8.4/(Vo-5)

Recommended Test Circuit Meets EN55032 Class A



PIN Assignment

Pin	1	2	3	4	5
Function	Remote On/Off	+Vin	GND	+Vout	Trim