

CTC COIL TECHNOLOGY CORPORATION

DC/DC CONVERTER B2.2WR-xxxxA/DA Series , 2.2W REGULATION

Features:

- 2:1 Wide Input Range.
- 2.2W DIP-24 Package.
- Input π Filter.
- Internal SMD design.
- High Efficiency up to 85%.
- UL94V-0 Package Material.
- Low Ripple and Noise.
- Continuous Short Circuit Protection, Auto-Restarting.
- 2KVdc Isolation min.
- Operating Temperature Range From - 40 ~ +85 .
- Meet CE EN-60950-1 Certified、CE EN-60601-1 Certified



Note: Add “/H” after Order Code for isolation 4KVdc min.

Metal case could be selected with “ M ”after P/N

Description:

The B2.2WR-xxxxA/DA series is a wide input voltage range of DC-DC converters offering a single and dual regulated output. 24-pin DIP and high efficiency allows an operating temperature of – 40 to +85 .

Selection Guide

P/N	Input Range	Output Voltage	Output Current	Efficiency Typ.
B2.2WR-053.3A B2.2WR-0505A/DA B2.2WR-0509A/DA B2.2WR-0512A/DA B2.2WR-0515A/DA	4.5 ~ 9 VDC	3.3 5 / ± 5 9 / ± 9 12 / ± 12 15 / ± 15	600mA 440mA / ± 220 mA 244mA / ± 122 mA 183mA / ± 92 mA 147mA / ± 74 mA	70% 72% 74% 77% 78%
B2.2WR-123.3A B2.2WR-1205A/DA B2.2WR-1209A/DA B2.2WR-1212A/DA B2.2WR-1215A/DA	9 ~ 18VDC	3.3 5 / ± 5 9 / ± 9 12 / ± 12 15 / ± 15	600mA 440mA / ± 220 mA 244mA / ± 122 mA 183mA / ± 92 mA 147mA / ± 74 mA	74% 78% 81% 83% 84%
B2.2WR-243.3A B2.2WR-2405A/DA B2.2WR-2409A/DA B2.2WR-2412A/DA B2.2WR-2415A/DA	18 ~ 36VDC	3.3 5 / ± 5 9 / ± 9 12 / ± 12 15 / ± 15	600mA 440mA / ± 220 mA 244mA / ± 122 mA 183mA / ± 92 mA 147mA / ± 74 mA	76% 79% 82% 84% 85%
B2.2WR-483.3A B2.2WR-4805A/DA B2.2WR-4809A/DA B2.2WR-4812A/DA B2.2WR-4815A/DA	36 ~ 72VDC	3.3 5 / ± 5 9 / ± 9 12 / ± 12 15 / ± 15	600mA 440mA / ± 220 mA 244mA / ± 122 mA 183mA / ± 92 mA 147mA / ± 74 mA	78% 80% 83% 85% 85%

Electrical Specifications

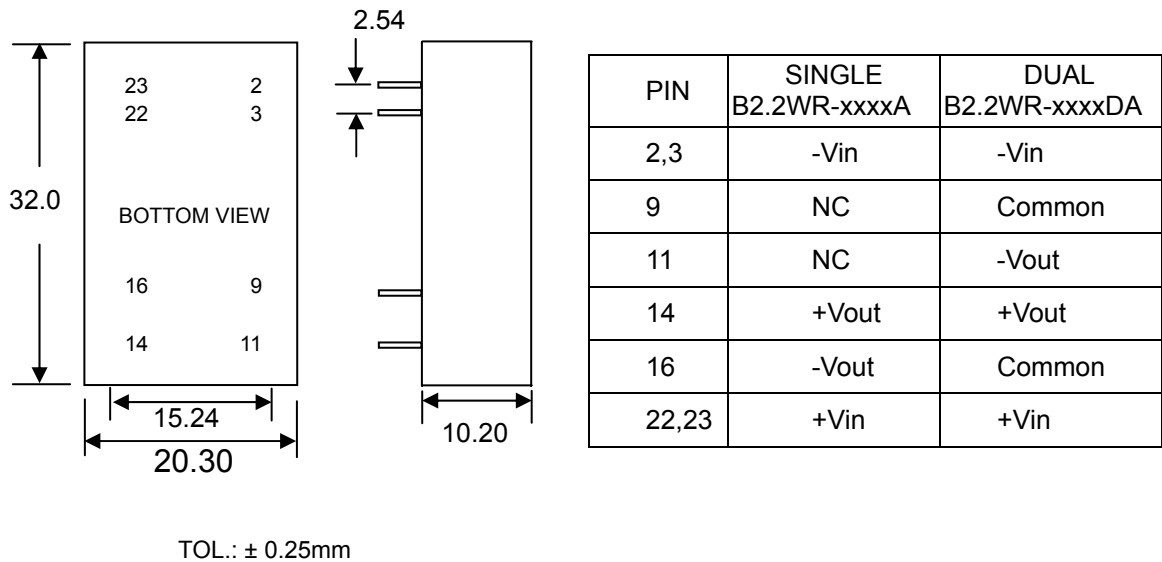
Input Filter	π type.			
Voltage set accuracy		MIN.	TYP.	MAX.
				±1%
Line Regulation	Low line to High line @Max. load			0.3%
Load Regulation	20% ~ 100% load			0.6%
Ripple & Noise @ 20MHz BW <small>Note 1</small>				50mVp-p
Operating Temperature		-40		+85
Storage Temperature		-50		+125
Short-Circuit Protection	Continuous , Auto Restart			
Operating Frequency (Pulse Frequency Modulation,PFM)	Vin = Nominal Input	110KHz		
Isolation Test Voltage	Tested for 1 second Min.	MIN.	TYP.	MAX.
		2000Vdc		
Isolation Capacity			40pF	
Isolation Resistance		1GΩ		
Humidity				95%
MTBF (MIL-HDBK-217F)			1.1x10 ⁶ hours	
Case Temperature	Vin = Nominal Input @ Ta=25		35	

Physical Specifications

Case Material	Non conductive Black Plastic
Potting Material	Epoxy(UL94V-0)
Weight	12.0g

All specifications valid at nominal input voltage, full load @ 25 after warm-up time unless otherwise stated.

Outline Dimensions



Note:

- To measure the output ripple & noise with short runs by 0.1uF/ 50V @ 20MHz nominal input and full load. Please see as below :

