

CMDW-24S03RW

3 WATT DC-DC CONVERTER

3 Watt DC/DC

Converter



Features

3WATT SMD PACKAGE
4:1 WIDE INPUT VOLTAGES
EFFICIENCY TO 68%
100% BURNED IN
UL 94V-0 PACKAGE MATERIAL
CUSTOM SOLUTIONS AVAILABLE
REGULATED OUTPUT TYPES



Input: 9-36VDC

Other Output available



Input Specifications

Input Voltage	:24Vdc
Input Voltage Range	:9-36Vdc

Output Specifications

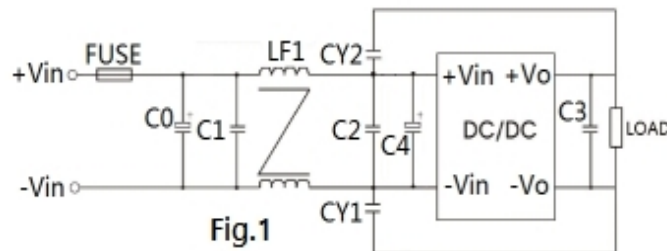
Output Voltage	:3.3Vdc	
Output Voltage Accuracy	: $\pm 3\%$	@Vout=3.201-3.399Vdc@Vin=9-36Vdc
Output Current	:700mA	
Efficiency	:68% TYP	
Ripple / Noise	:100mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	:Continuous	
Line Regulation	: $\pm 0.5\%$ MAX	@ LL to HL at Full Load
Load Regulation	: $\pm 0.8\%$ MAX	@ 0% to 100%FL

General Specifications

Operating Temperature Range	:-40°C ~ +85°C	
Storage Temperature	:-40°C ~ +125°C	
Switching Frequency	:200KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:1500Vdc	@Input to Output (60sec/0.5mA)
Isolation Resistance	:1000MΩ MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>1000000 Hours	MIL-HDBK-217F@25°C,Ground Benign.
Case Material	:DAP	
Weight	:3.9g TYP	

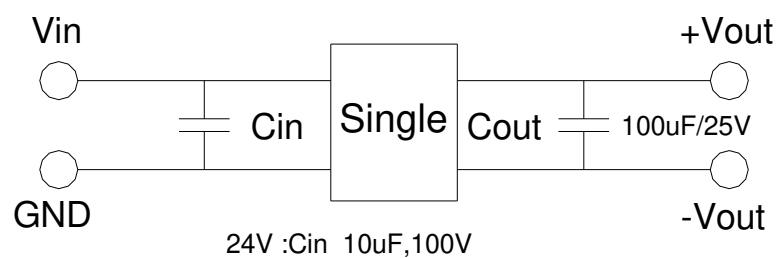
EMC Compliance Circuit

EMC Compliance Circuit

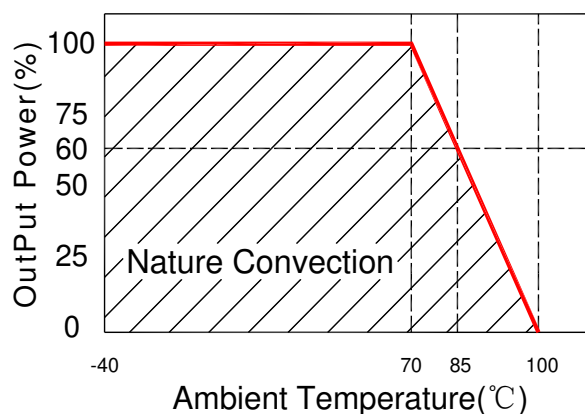


EMC recommended circuit value table		
EMI	C0C4	330 μ F /100V
	C1C2	10 μ F /100V
	CY1CY2	1nF/2kV
	C3	100 μ F /25V
	LF1	470 μ H

Recommended Test Circuit



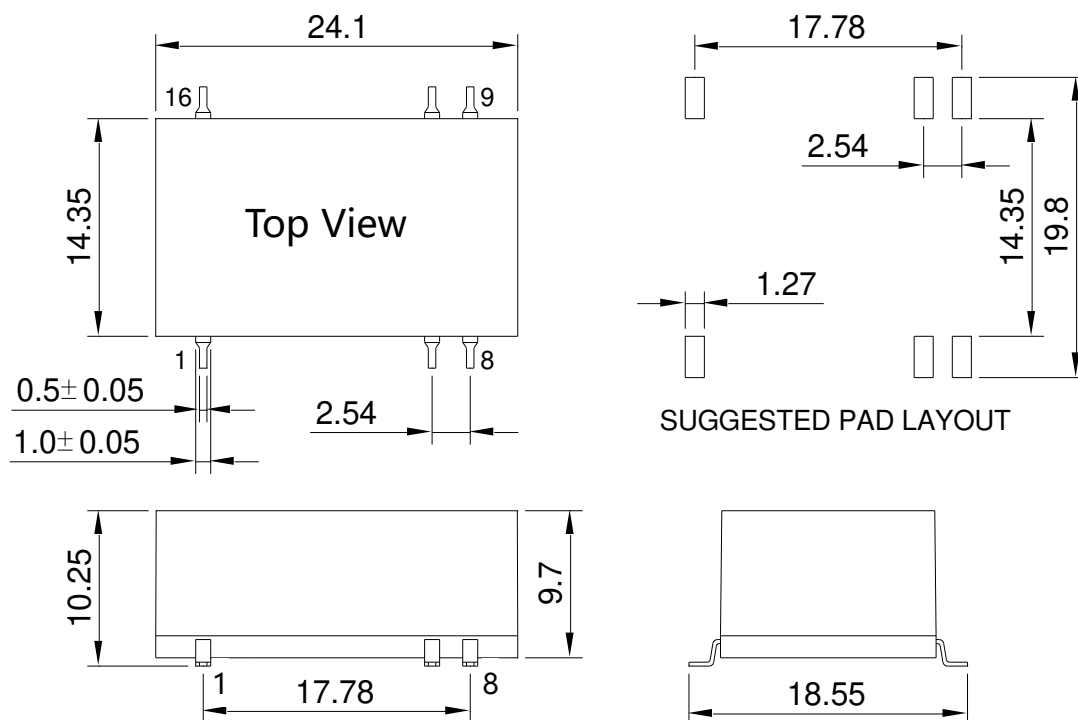
To make sure the product work at perfect operation status with full loading external capacitor is necessary and it

Temperature Derating Graph**Part Number**

CMDW - 24 S 03 R W

A B C D E F

A:Series
B:Input Voltage
C:Single Output
D:Output Voltage
E:Regulated(R)
F: Power

Outline Dimensions

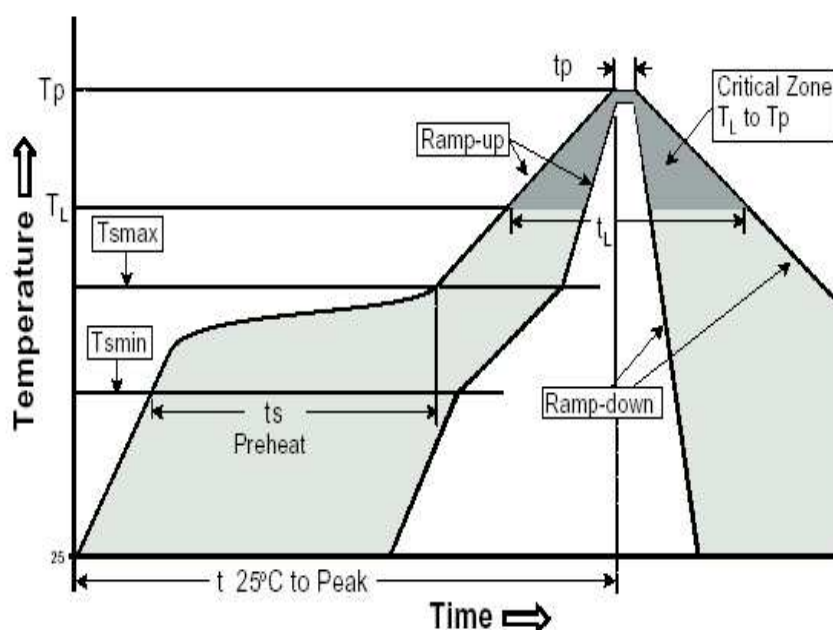
UNIT:mm Unless otherwise specified,all tolerances are ±0.25

PIN	1	7	8	9	10	16
Single	-Vin	NC	NC	+Vout	-Vout	+Vin

RoHS compliant type

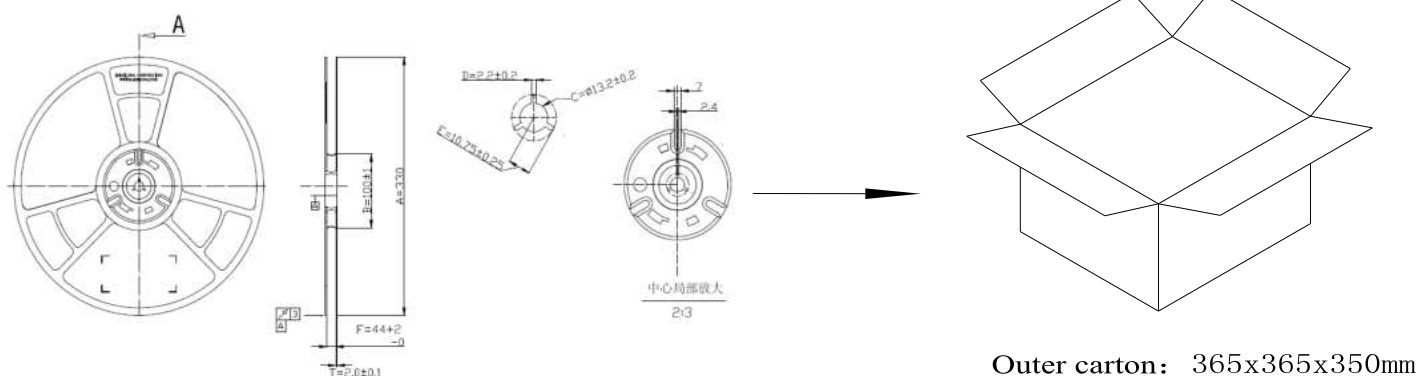
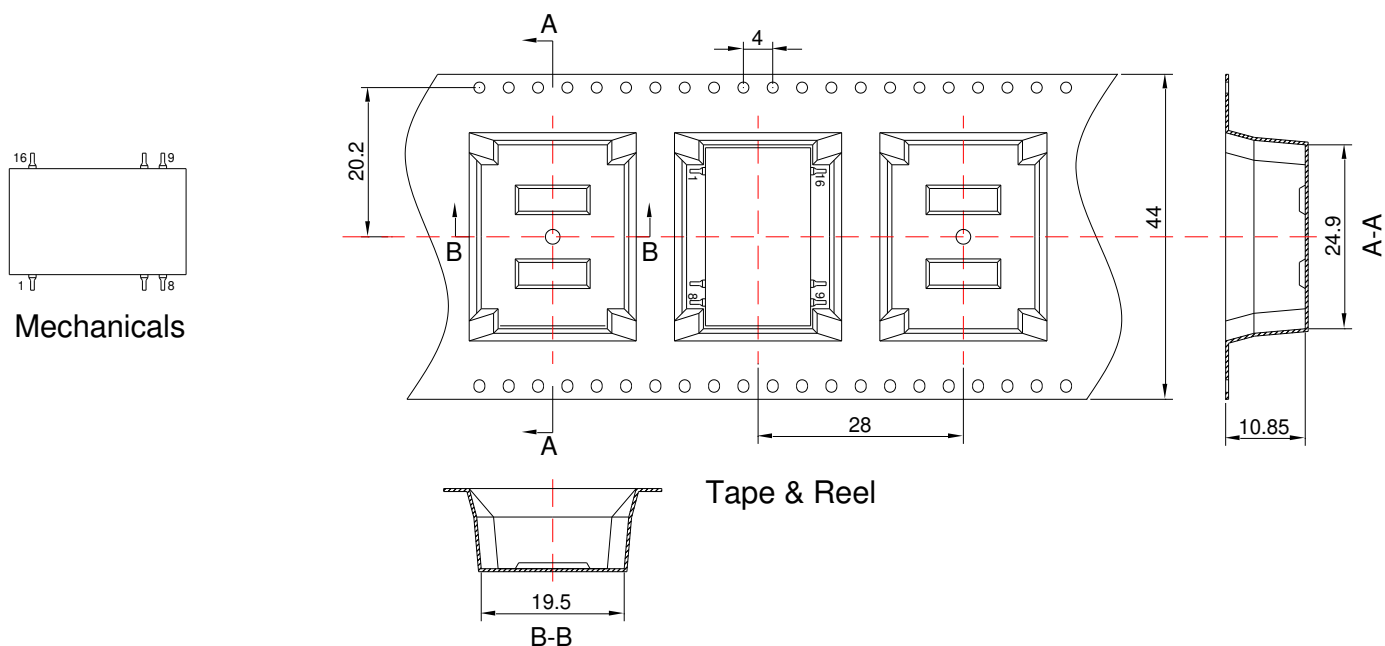
Our RoHS parts just can withstand IR Reflow peak temperature: 240degC +/-5degC as the following profile:

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s\ max}$ to T_p)	3°C /second max.
Preheat -Temperature Min ($T_{s\ min}$) -Temperature Max ($T_{s\ max}$) -Time ($t_{s\ min}$ to $t_{s\ max}$)	150°C 200°C 60-180 seconds
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature (T_p)	240±5°C MAX
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-Down Rate	6°C/seconds max
Time 25°C to Peak Temperature	6 minutes max.



Packing Information:

- 1.Weight-----3.9 grams/pcs
- 2.Tape & Reel----- 200pcs
3. outer carton unit: 1200pcs/box
4. outer carton unit: 6T&R/box
- 5.Weight: 7.8kg per carton

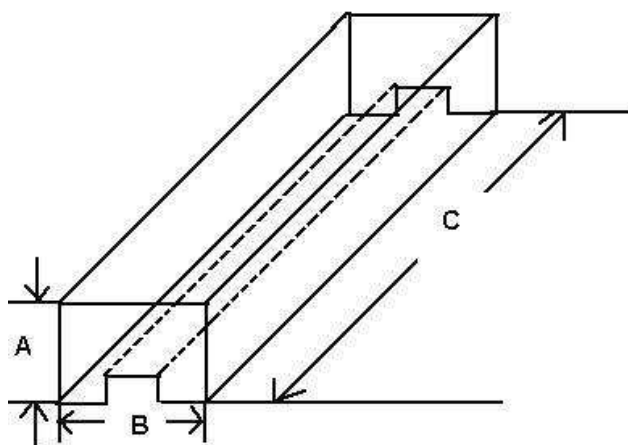


Packing Information:

Weight----- 3.9 grams/pcs

TUBE----- 20pcs

Weight: 112.3g per tube



UNIT:mm

Size(mm)		
A	B	C
18.0	20.0	520

Outer carton unit: 1440pcs/72Tube/box

Weight: 8.2kg per carton

