

TECHNICAL DATA
DATA SHEET 1235, REV. A

DC-DC Converters
Wide Input (2:1), 1500V Isolation, Regulated

FEATURES:

- Isolation Voltage: 1500Vdc
- Isolation Resistance (1): 1000MΩ
- Short-Circuit Duration: Continuous
- Case Temperature Rise: Max. 25°C, Typ. 15°C
- Cooling Method: Free-Air Cooling
- Operating Temp.: -40°C ~ + 70°C
- Storage Temp.: -40°C ~ + 125°C
- Humidity: ≤ 95%
- Soldering Temp. (2): 300°C
- Case Material: Non-Flammable Material (UL94-V0)
- Mean Time Before Failure: > 1,000,000 hours (Operating Temp. 25°C)

W-SMD-2W/3W Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W0515GT2	5Vdc	4.5~9Vdc	12Vdc
W12XXH/GT2/3	12Vdc	9~18Vdc	18Vdc
W24XXH/GT2/3	24Vdc	18~36Vdc	36Vdc
W48XXH/GT2/3	48Vdc	36~72Vdc	75Vdc

* Voltage above this value may cause permanent damage to the device.

W-SMD-2W/3W Series Output Characteristics

Parameter	MIN	TYP	MAX	Units
Output Power			3	W
Output Voltage Accuracy		± 1	± 3	%
Voltage Regulation		0.1	0.3	%
Load Regulation		0.3	1.0	%
Temperature Coefficient		± 0.01	± 0.02	%/°C
Ripple		20	50	MVp-p
Noise		100	300	MVp-p
Switching Frequency at 100% Load	80		200	kHz
Switching Frequency at 25% Load	250		550	kHz

1. All specifications at T_A=25°C, 75% of the humidity, Nominal input voltage, full output load unless otherwise specified.
2. Soldering for 10 seconds at 1.5mm away from the edge.

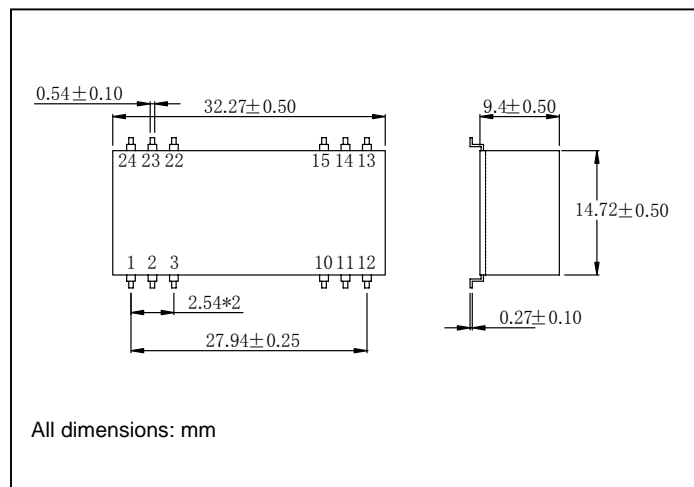
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W-SMD-2W/3W Series Part Number List

Input	Output	Power	Efficiency	Single-2W	Dual-2W	Single-3W	Dual-3W	
5Vdc	5V/400mA	2W 2.5W 3W	70%	-	W0515GT2	-	-	
12Vdc	5V/500mA		78%	W1205HT2	W1205GT2	W1205HT3	W1205GT3	
	12V/222mA		81%	W1212HT2	W1212GT2	W1212HT3	W1212GT3	
	15V/166mA		81%	W1215HT2	W1215GT2	W1215HT3	W1215GT3	
	5V/600mA		79%	W2405HT2	W2405GT2	W2405HT3	W2405GT3	
12V/250mA	82%			W2412HT2	W2412GT2	W2412HT3	W2412GT3	
15V/200mA				W2415HT2	W2415GT2	W2415HT3	W2415GT3	
24Vdc	± 5V/200mA			79%	W4805HT2	W4805GT2	W4805HT3	W4805GT3
	± 12V/111mA		83%		W4812HT2	W4812GT2	W4812HT3	W4812GT3
	± 15V/83mA				83%	W4815HT2	W4815GT2	W4815HT3
	± 5V/300mA							
48Vdc	± 12V/125mA							
	± 15V/100mA							

Mechanical Dimensions

WxxyyH/GT2/3 PACKAGE DIMENTIONS



PIN CONFIGURATION

Pin	Function	
	WxxyyGT2/3	WxxyyHT2/3
23,24	Vin	Vin
1,2	GND	GND
13	+Vo	+Vo
10	0V	0V
12	-Vo	NC
15	0V	NC
Other	NC	NC

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