

TECHNICAL DATA
DATA SHEET 1119, REV. A

DC-DC Converters
Wide Input (2:1), 1000V Isolation, Regulated

FEATURES:

- Isolation Voltage: 1000Vdc
- 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 ~ + 85°C
- Storage Temp.: -50°C ~ + 125°C
- Humidity: ≤ 95%
- Soldering Temp. (2): 300°C
- Case Material: Non-Flammable Material (UL94-V0)
- Mean Time Before Failure: > 1,500,000 hours (Operating Temp. 25°C)

W-1W Single-Dual Output Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W24XXH/GDA1	24Vdc	18~36Vdc	40Vdc
W48XXH/GDA1	48Vdc	36~72Vdc	80Vdc

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

W-1W Single-Dual Output Series Output Characteristics

Parameter	MIN	TYP	MAX	Units
Output Power	-	-	1	W
Output Voltage Accuracy	-	± 1	± 3	%
Efficiency at 25% Load	60	65	70	%
Efficiency at 100% Load	65	75	83	%
Voltage Regulation	-	0.1	0.2	%
Load Regulation	-	0.2	0.5	%
Temperature Coefficient	-	-	0.02	%/°C
Ripple	-	10	20	mVp-p
Noise	-	50	100	mVp-p
Switching Frequency at 100% Load	80	-	200	kHz
Switching Frequency at 25% Load	250	-	550	kHz

1. All specifications at TA=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.

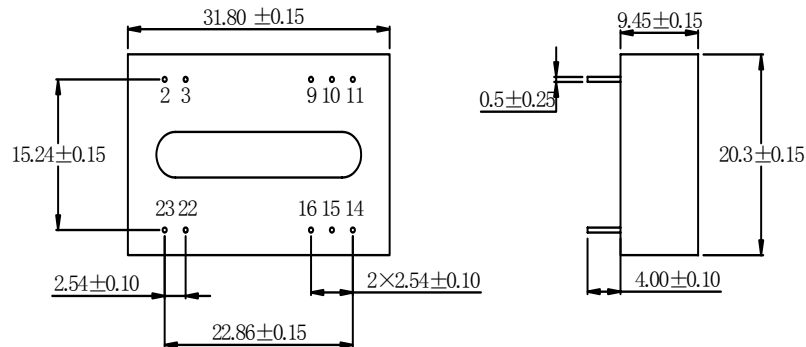
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W-1W Single-Dual Output Series Part Number List

Input	Output	Power	Single-1W	Dual-1W
24Vdc	5V/200mA	1W	W2405HDA1	W2405GDA1
	9V/111mA		W2409HDA1	W2409GDA1
	12V/83mA		W2412HDA1	W2412GDA1
	15V/67mA		W2415HDA1	W2415GDA1
48Vdc	± 5V/100mA		W4805HDA1	W4805GDA1
	± 9V/55mA		W4809HDA1	W4809GDA1
	± 12V/41mA		W4812HDA1	W4812GDA1
	± 15V/33mA		W4815HDA1	W4815GDA1

Mechanical Dimensions: in mm

WxxyyH/GDA1 PACKAGE DIMENTIONS



PIN CONFIGURATION

Pin	Function	
	WxxyyHDA1	WxxyyGDA1
2,3	GND	GND
10,15	NC	NC
22, 23	Vin	Vin
14	+Vo	+Vo
11	NC	-Vo
16	0V	0V
9	NC	0V

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