

TECHNICAL DATA
DATA SHEET 1119, REV. -**DC-DC Converters**
Wide Input (2:1), 1000V Isolation, Regulated**FEATURES:**

- Isolation Voltage: 1000Vdc
- Isolation Resistance (1): 1000MW
- 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: $\leq$ 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/GD1	24Vdc	18~36Vdc	40Vdc
W48XXH/GD1	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.

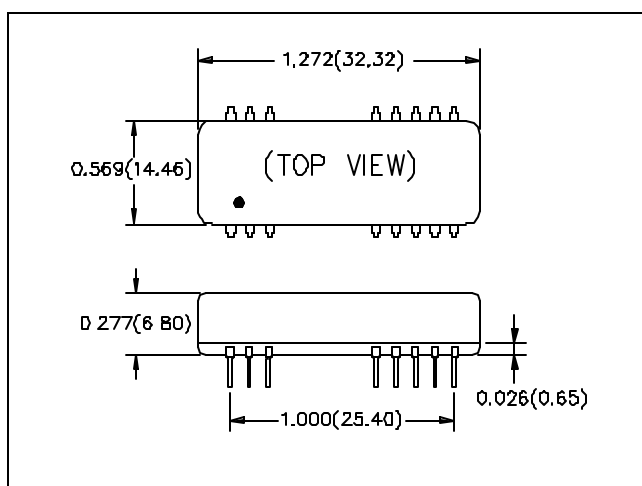
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W-1W Single-Dual Output Series Part Number List

Input	Output	Power	Single-1W	Dual-1W
24Vdc	5V/200mA	1W	W2405HD1	W2405GD1
	9V/111mA		W2409HD1	W2409GD1
	12V/83mA		W2412HD1	W2412GD1
	15V/67mA		W2415HD1	W2415GD1
48Vdc	± 5V/100mA		W4805HD1	W4805GD1
	± 9V/55mA		W4809HD1	W4809GD1
	± 12V/41mA		W4812HD1	W4812GD1
	± 15V/33mA		W4815HD1	W4815GD1

Mechanical Dimensions: in mm

WxxyyH/GD1 PACKAGE DIMENTIONS



All dimensions: mm

Precision: Case ± 0.5 (± 0.02 in)
Precision: Pin ± 0.25 (± 0.01 in)

PIN CONFIGURATION

Pin	Function	
	WxxyyHD1	WxxyyGD1
Other	NC	NC
2,3	GND	GND
22, 23	Vin	Vin
14	+Vo	+Vo
16	0V	0V
11	-	-Vo
9	-	0V