

TECHNICAL DATA
DATA SHEET 1113, REV. -

DC-DC Converters

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

FEATURES:

- Isolation Voltage (Vin & Vo): 1000Vdc
- Isolation Voltage (Vo1 & Vo2): 1000Vdc
- Isolation Resistance (1): 1GW
- 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: > 580,000 hours (Operating Temp. 25° C)

W-SMD-1W Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W24XXGT1	24Vdc	18~36Vdc	40Vdc
W48XXGT1	48Vdc	36~72Vdc	80Vdc

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

W-SMD-1W 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 (Vo1)	-	0.2	0.5	%
Load Regulation (Vo2)	-	3	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.

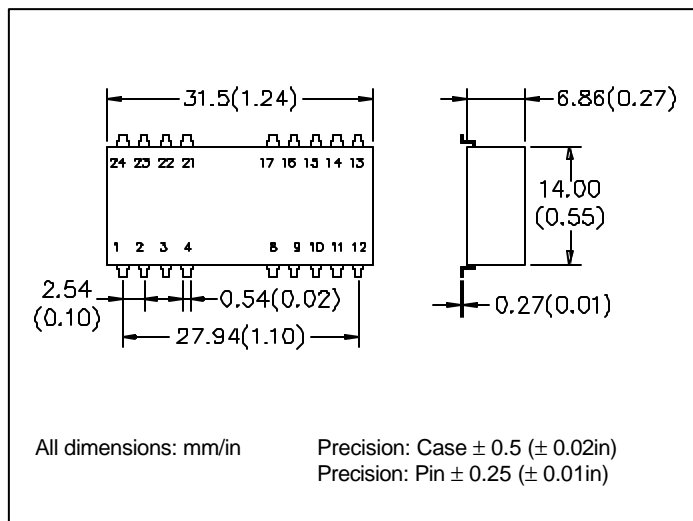
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W-SMD-1W Series Part Number List

Input	Output	Power	Dual-1W
24Vdc	± 5V/100mA ± 9V/55mA	1W	W2405GT1 W2409GT1 W2412GT1 W2415GT1
48Vdc	± 12V/42mA ± 15V/33mA		W4805GT1 W4809GT1 W4812GT1 W4815GT1

Mechanical Dimensions: in inches / mm

WxxyyGT1 PACKAGE DIMENTIONS



PIN CONFIGURATION

Pin	Function
	WxxyyGT1
Other	NC
2,3	GND
22, 23	Vin
14	+Vo
16	0V
11	-Vo
9	0V
21	CTL