TECHNICAL DATA
DATA SHEET 1238, REV. -

DC-DC Converters

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

FEATURES:

- **Isolation Voltage:** **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:** **> 1,000,000 hours (Operating Temp. 25°C)**

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

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W05XXHT2	5Vdc	4.5~9Vdc	11Vdc
W12XXHT3	12Vdc	9~18Vdc	22Vdc
W24XXHT3	24Vdc	18~36Vdc	40Vdc
W48XXHT3	48Vdc	36~72Vdc	80Vdc

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

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

Parameter	MIN	TYP	MAX	Units
Output Power			3	W
Output Voltage Accuracy		± 1	± 3	%
Efficiency at 25% Load	60	65	70	%
Efficiency at 100% Load	65	75	85	%
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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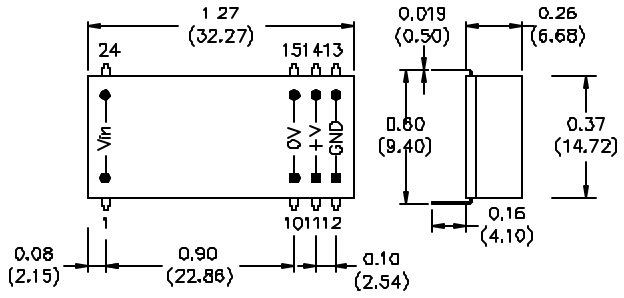
W-SMD-2/3W Single Output Series Part Number List

Input	Output	Power	Part Number
5Vdc	5V/400mA	2W	W0505HT2
	9V/222mA		W0509HT2
	12V/167mA		W0512HT2
	15V/133mA		W0515HT2
12Vdc	5V/500mA	3W	W1205HT3
			W1209HT3
			W1212HT3
			W1215HT3
24Vdc	9V/333mA		W2405HT3
	12V/250mA		W2409HT3
	15V/200mA		W2412HT3
			W2415HT3
48Vdc			W4805HT3
			W4809HT3
			W4812HT3
			W4815HT3

Mechanical Dimensions

WxxyyHT2/3 PACKAGE DIMENTIONS



All dimensions: mm/inch

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

PIN CONFIGURATION

Pin	Function
	WxxyyHT2/3
1	Vin
10	0V
11	+Vo
12	GND
13	GND
14	+Vo
15	0V
24	Vin