

TECHNICAL DATA
DATA SHEET 2052, REV. -**DC-DC Converters**
Wide Input (2:1), 1000V Isolation, Regulated**FEATURES:**

- Isolation Voltage: 1000Vdc
- Isolation Resistance (1): 1G Ω
- 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: > 1,090,000 hours (Operating Temp. 25°C)

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

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W05XXH/GDC2/3	5Vdc	4.5~9Vdc	11Vdc
W12XXH/GDC2/3	12Vdc	9~18Vdc	22Vdc
W24XXH/GDC2/3	24Vdc	18~36Vdc	40Vdc
W48XXH/GDC2/3	48Vdc	36~72Vdc	80Vdc

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

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

Parameter	MIN	TYP	MAX	Units
Output Power	-	-	3	W
Output Voltage Accuracy	-	± 1	± 3	%
Efficiency at 25% Load	-	65	-	%
Efficiency at 100% Load	-	75	-	%
Voltage Regulation	-	0.1	0.2	%
+Vo Load Regulation	-	0.2	0.5	%
-Vo Load Regulation	-	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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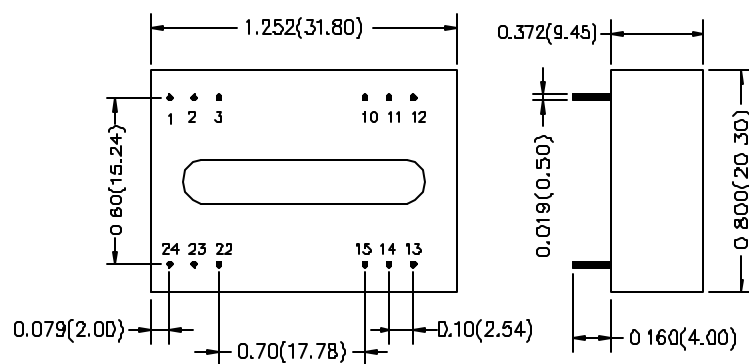
W-2/3W Single-Dual Output Series Part Number List

Input	Output	Power	Single-2W	Single-3W	Dual-2W	Dual-3W
5Vdc	3.3V/300mA	1.00W	W0503HDC1	W0503HDC2	-	-
	5V/300mA	1.50W	W0505HDC2	-	W0505GDC2	-
	9V/222mA	2.00W	W0509HDC2	-	W0509GDC2	-
	12V/167mA	2.00W	W0512HDC2	-	W0512GDC2	-
	15V/133mA	2.00W	W0515HDC2	-	W0515GDC2	-
12Vdc	± 5V/200mA	2.00W	W1203HDC1	W1203HDC2	-	-
	± 9V/111mA	2.00W	W1205HDC2	W1205HDC3	W1205GDC2	W1205GDC3
	± 12V/83mA	2.00W	W1209HDC2	W1209HDC3	W1209GDC2	W1209GDC3
	± 15V/67mA	2.00W	W1212HDC2	W1212HDC3	W1212GDC2	W1212GDC3
	± 15V/67mA	2.00W	W1215HDC2	W1215HDC3	W1215GDC2	W1215GDC3
24Vdc	3.3V/500mA	1.65W	W2403HDC1	W2403HDC2	-	-
	5V/500mA	2.50W	W2405HDC2	W2405HDC3	W2405GDC2	W2405GDC3
	9V/330mA	3.00W	W2409HDC2	W2409HDC3	W2409GDC2	W2409GDC3
	12V/250mA	3.00W	W2412HDC2	W2412HDC3	W2412GDC2	W2412GDC3
	15V/200mA	3.00W	W2415HDC2	W2415HDC3	W2415GDC2	W2415GDC3
48Vdc	± 5V/300mA	3.00W	W4803HDC1	W4803HDC2	-	-
	± 9V/160mA	3.00W	W4805HDC2	W4805HDC3	W4805GDC2	W4805GDC3
	± 12V/125mA	3.00W	W4809HDC2	W4809HDC3	W4809GDC2	W4809GDC3
	± 15V/100mA	3.00W	W4812HDC2	W4812HDC3	W4812GDC2	W4812GDC3
	± 15V/100mA	3.00W	W4815HDC2	W4815HDC3	W4815GDC2	W4815GDC3

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Mechanical Dimensions: in mm

WxxyyH/GDC2/3 PACKAGE DIMENTIONS



PIN CONFIGURATION

Pin	Function	
	WxxyyHDC2/3	WxxyyGDC2/3
1	Vin	Vin
2	-	-Vo
3	-	0V
10	0V	0V
11	+Vo	+Vo
12	GND	GND
13	GND	GND
14	+Vo	+Vo
15	0V	0V
22	-	0V
23	-	-Vo
24	Vin	Vin