

TECHNICAL DATA
DATA SHEET 1103, REV. -**DC-DC Converters****Wide Input (2:1), 1000V Isolation, Regulated, Single (Dual) Output****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: ≤ 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-2W Single-Dual Output Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
W12XXH/GS2	12Vdc	9~18Vdc	20Vdc
W24XXH/GS2	24Vdc	18~36Vdc	40Vdc
W48XXH/GS2	48Vdc	36~72Vdc	80Vdc

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

W-2W Single-Dual Output Series Output Characteristics

Parameter	MIN	TYP	MAX	Units
2W Output Power	0.5		2	W
Vout1 Output Voltage Accuracy		± 1	± 3	%
Vout2 Output Voltage Accuracy		± 3	± 5	%
Efficiency at 25% Load	60	65	70	%
Efficiency at 100% Load	65	75	83	%
Voltage Regulation		0.1	0.2	%
Vout (+) Load Regulation		0.2	0.5	%
Vout (-) Load Regulation		3	5	%
Temperature Coefficient			0.02	%/°C
Ripple		10	20	mVp-p
Noise		50	100	
Switching Frequency at 100% Load	80		200	kHz
Switching Frequency at 25% Load	250		550	kHz

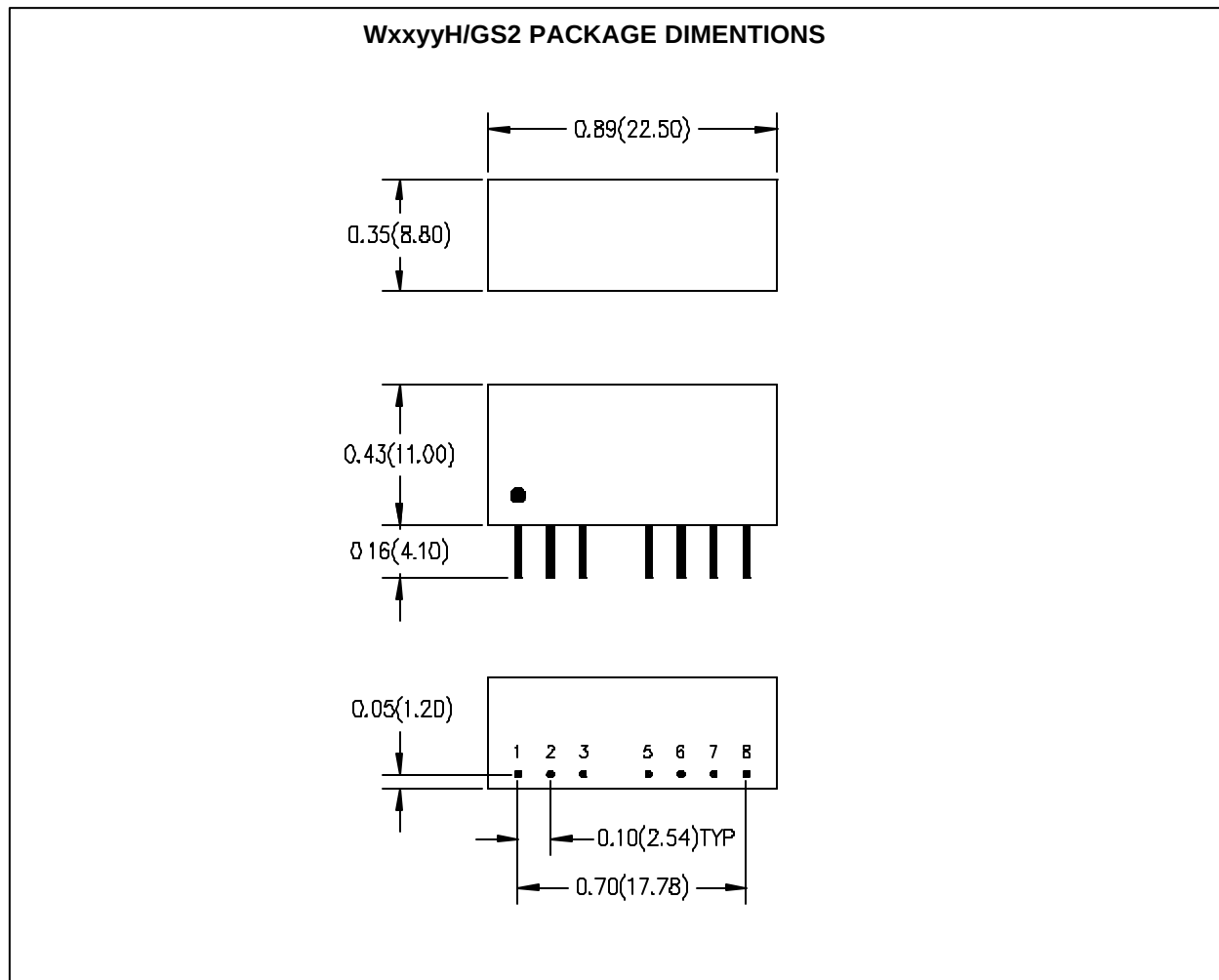
1. All specifications at TA=25°C, 75% of the humidity, Nominal input voltage, full output load unless otherwise specified.
2. Soldering for 10 seconds at 1.5mm away from the edge.

TECHNICAL DATA
DATA SHEET 1103, REV. -**W-2W Single-Dual Output Series Part Number List**

Input	Output	Power	Single-2W	Dual-2W
12Vdc	5V/300m A	1.50W	W1205HS2	W1205GS2
	9V/222m A	2.00W	W1209HS2	W1209GS2
	12V/160m A	2.00W	W1212HS2	W1212GS2
			W1215HS2	W1215GS2
24Vdc	15V/133m A	2.00W	W2405HS2	W2405GS2
	±5V/150m A	1.50W	W2409HS2	W2409GS2
	±9V/110m A	2.00W	W2412HS2	W2412GS2
			W2415HS2	W2415GS2
48Vdc	±12V/80m A	2.00W	W4805HS2	W4805GS2
	±15V/66m A	2.00W	W4809HS2	W4809GS2
			W4812HS2	W4812GS2
			W4815HS2	W4815GS2

TECHNICAL DATA
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Mechanical Dimension: in inches / (mm) & Pin Configuration



PIN CONFIGURATION

Pin	Function
1	GND
2	Vin
3	CTRL
5	NC
6	+Vo1
7	OV1
8	CS