

TECHNICAL DATA
DATA SHEET 1114, REV. -

DC-DC Converters

Fixed Input, 6000V Isolation, Unregulated, Single/Dual Output

FEATURES:

- Isolation Voltage: 6000Vdc
- Isolation Resistance (1): 1000MW
- Short-Circuit Duration: 1 second
- Case Temperature Rise: Max. 25°C, Typ. 15°C
- Cooling Method: Free-Air Cooling
- Standby Power Dissipation: 1W (100mW), 2W (200mW)
- Operating Temp.: -40°C ~ +85°C
- Storage Temp.: -55°C ~ +125°C
- Humidity: \leq 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)

A Single/Dual Output-1W/2W Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
A05XXH/GD1/2U	5Vdc	4.5~5.5Vdc	7Vdc
A12XXH/GD1/2U	12Vdc	10.8~13.2Vdc	15Vdc

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

A Single/Dual Output-1W/2W Series Output Characteristics

Parameter	MIN	TYP	MAX	Units
1W Output Power	0.25		1	W
2W Output Power	0.5		2	W
Line Regulation			\pm 1.2	%
Efficiency at 100% Load	65	75	85	%
Temperature Coefficient			0.03	%/°C
1W Ripple and Noise		75	150	mVp-p
2W Ripple and Noise		100	200	
Switching Frequency	80	100	200	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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A Single/Dual Output-1W/2W Series Part Number List

Input	Output	Power	Single-1W	Single-2W	Dual-1W	Dual-2W	
5Vdc	5V/200mA	1.00W	A0505HD1U	A0505HD2U	A0505GD1U	A0505GD2U	
	9V/112mA		A0509HD1U	A0509HD2U	A0509GD1U	A0509GD2U	
	12V/84mA		A0512HD1U	A0512HD2U	A0512GD1U	A0512GD2U	
	15V/67mA		A0515HD1U	A0515HD2U	A0515GD1U	A0515GD2U	
	5V/400mA		2.00W				
	9V/224mA		2.00W				
	12V/168mA		2.00W				
12Vdc	±5V/100mA	2.00W	A1205HD1U	A1205HD2U	A1205GD1U	A1205GD2U	
	±9V/56mA	2.00W	A1209HD1U	A1209HD2U	A1209GD1U	A1209GD2U	
	±12V/42mA	2.00W	A1212HD1U	A1212HD2U	A1212GD1U	A1212GD2U	
	±15V/33mA		A1215HD1U	A1215HD2U	A1215GD1U	A1215GD2U	
	±5V/200mA						
	±9V/112mA						
	±12V/84mA						

PIN CONFIGURATION

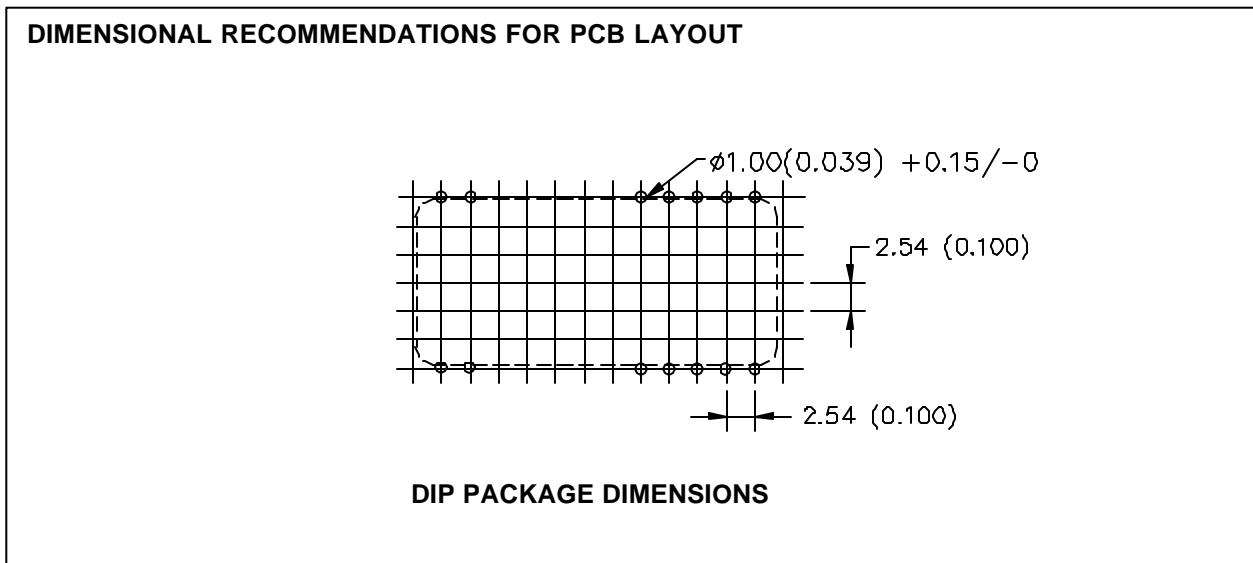
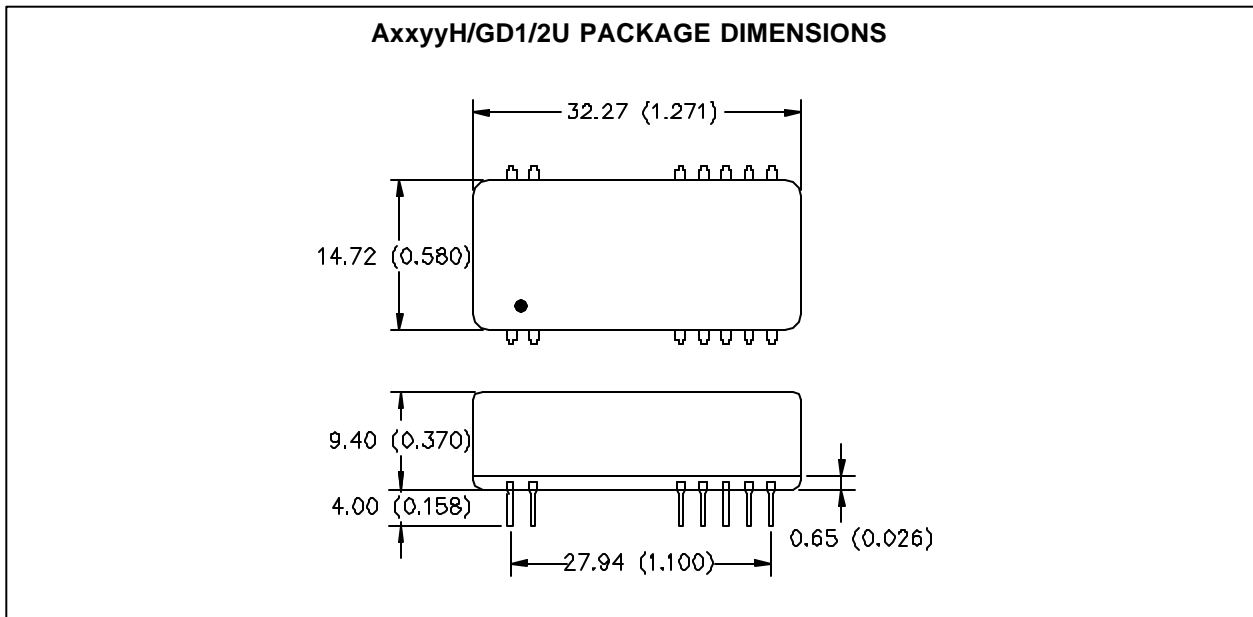
AxxyyH/GD1/2U PACKAGE

(TOP VIEW)

Pin	Function	
	AxxyyGD1/2U	AxxyyHD1/2U
1	Vin	Vin
2	GND	GND
8	-V	NC
9	NC	NC
10	0V	0V
11	NC	NC
12	+V	+V
13	+V	+V
14	NC	NC
15	0V	0V
16	NC	NC
17	-V	NC
23	NC	NC
24	NC	NC

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Mechanical Dimension: AxyyH/GD1/2U



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