

TECHNICAL DATA
DATA SHEET 1102, REV. -

DC-DC Converters
Fixed Input, 3000V Isolation, Unregulated, Dual Output

FEATURES:

- Isolation Voltage: 3000Vdc
- 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: \geq 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)



B Dual Output-1W/2W Series Input Characteristics

Part Number	Nominal Input Voltage	Input Voltage Range	Maximum Input Voltage*
B05XXGS/D-1W/2W	5VDC	4.5~5.5VDC	7VDC
B12XXGS/D-1W/2W	12VDC	10.8~13.2VDC	15VDC
B24XXGS/D-1W/2W	24VDC	21.6~26.4VDC	28VDC
B48XXGS/D-1W/2W	48VDC	43.2~52.8VDC	54VDC

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

B 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		50	75	mVp-p
2W Ripple and Noise		85	150	
Switching Frequency	80	100	150	KHz

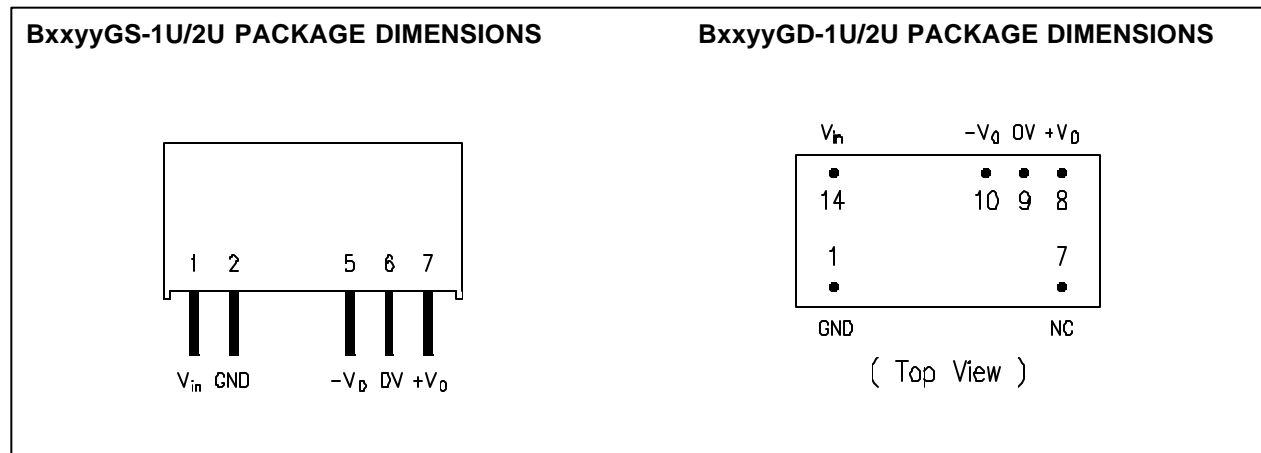
1. All specifications at TA=25°C, 75% of the humidity, Nominal input voltage, full output load unless otherwise specified.
2. Soldering for 10 seconds at 1.5mm away from the edge.

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B Dual Output-1W/2W Series Part Number List

Input	Output	Power	SIP-1W	SIP-2W	DIP-1W	DIP-2W
5VDC			B0505GS1U	B0505GS2U	B0505GD1U	B0505GD2U
			B0509GS1U	B0509GS2U	B0509GD1U	B0509GD2U
			B0512GS1U	B0512GS2U	B0512GD1U	B0512GD2U
			B0515GS1U	B0515GS2U	B0515GD1U	B0515GD2U
12VDC	5V/100mA	1.00W	B1205GS1U	B1205GS2U	B1205GD1U	B1205GD2U
	9V/56mA	1.00W	B1209GS1U	B1209GS2U	B1209GD1U	B1209GD2U
	12V/42mA	1.00W	B1212GS1U	B1212GS2U	B1212GD1U	B1212GD2U
	15V/33mA	1.00W	B1215GS1U	B1215GS2U	B1215GD1U	B1215GD2U
24VDC	5V/200mA	2.00W	B2405GS1U	B2405GS2U	B2405GD1U	B2405GD2U
	9V/111mA	2.00W	B2409GS1U	B2409GS2U	B2409GD1U	B2409GD2U
	12V/84mA	2.00W	B2412GS1U	B2412GS2U	B2412GD1U	B2412GD2U
	15V/67mA	2.00W	B2415GS1U	B2415GS2U	B2415GD1U	B2415GD2U
48VDC			B4805GS1U	B4805GS2U	B4805GD1U	B4805GD2U
			B4809GS1U	B4809GS2U	B4809GD1U	B4809GD2U
			B4812GS1U	B4812GS2U	B4812GD1U	B4812GD2U
			B4815GS1U	B4815GS2U	B4815GD1U	B4815GD2U

PIN CONFIGURATION



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Mechanical Dimension: in inches / (mm)

