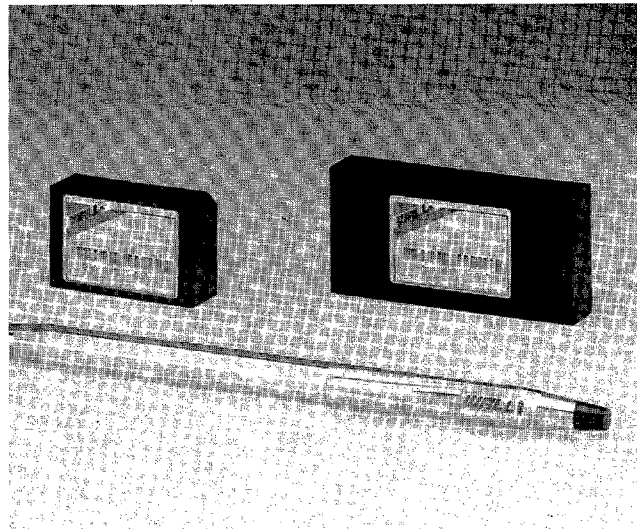


**1 TO 5.4 WATTS - IB SERIES**

4000 VDC Input/Output Isolation

**FEATURES**

- ◆ Highly Isolated
- ◆ Single and Dual Outputs
- ◆ Momentary Short Circuit Protection
- ◆ Industry Standard Packages
- ◆ High Efficiency: 85% typical
- ◆ Five Year Warranty



**THE IB SERIES FROM WALL INDUSTRIES**

The IB Series features extremely high Input/Output isolation in a miniature 1.5 watt package. Designed with a low profile and 24 pin DIP compatibility, the IB fits easily into PC board assemblies. High efficiency (>80% typical) is a result of state-of-the-art circuitry with an oscillator frequency greater than 50kHz.

**SPECIFICATIONS: IB SERIES**

All specifications apply @ +25 C ambient unless otherwise noted.

**INPUT SPECIFICATIONS**

Input Voltage Range.....5.12VDC ± 10%  
 Input Filter .....N/A

**OUTPUT SPECIFICATIONS**

Output Current .....See Table  
 Voltage Tolerance.....± 3% nom. Vin @ FL  
 Line Regulation .....± 1.1%/%of Vin  
 Load Regulation.....± 10% NL-FL  
 Ripple/Noise (20MHz BW).....≤100mV P-P  
 Short Circuit Protection.....Momentary

Due to advances in technology, specifications subject to change without notice.

**GENERAL SPECIFICATIONS**

Efficiency (typical) .....85% (nom. Vin, FL)  
 Isolation Voltage (input to output).....4000VDC  
 Feedthrough Capacitance .....30pF  
 Isolation Resistance .....100Mohms (typical)  
 Switching Frequency.....50kHz min.

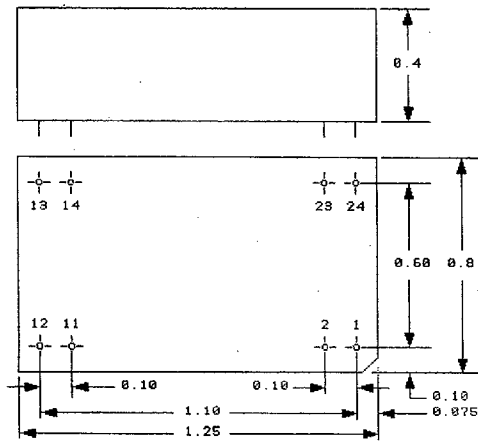
**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature .....-25 to +71°C(1" from case)  
 Storage Temperature .....-55 to +100°C  
 Cooling.....Free Air Convection

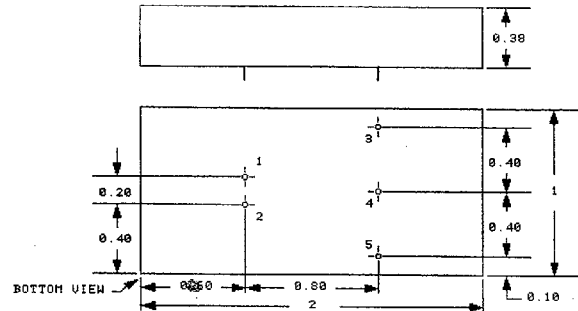
**PHYSICAL SPECIFICATIONS**

Dimensions: Single Output.....0.8 x 1.25 x 0.4"  
 Dual Output.....1.0 x 2.0 x 0.38"  
 Case Material .....Non-Metallic

Single Output



Dual Output



Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Model Number	
5VDC	5	220	IBS55	
	9	180	IBS59	
	12	100	IBS512	
	15	90	IBS515	
	24	50	IBS524	
	30	45	IBS530	
	48	125	IBS548-125**	
	± 5	200	IBD55	
	± 12	100	IBD512	
	± 15	90	IBD515	
	± 15	150	IBD5150	
	12VDC	5	220	IBS25
		12	100	IBS212
15		90	IBS215	
24		50	IBS224	
30		45	IBS230	
48		50	IBS248	
± 5		200	IBD25	
± 12		100	IBD212	
± 15		90	IBD215	
± 15		150	IBD2150	

\*\* 500 VDC I/O isolation, larger (dual) package

PIN CONNECTIONS

	Single	Dual
1	+Vin	+Vin
2	+Vin	-Vin
3		+Vout
4		Common
5		-Vout
11, 12	+Vout	
13, 14	-Vout	
23, 24	-Vin	

Notes:

- All case and pin-to-case dimensions reference only unless otherwise noted.
- Pin details: Singles: eight pins, 0.02" diameter x 0.15" long.  
Duals: five pins, 0.04" diameter x 0.20" long.