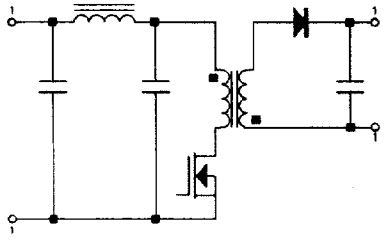
HIGH-DENSITY DC/DC CONVERTERS WITH SINGLE OR DUAL REGULATED OUTPUTS AND WIDE INPUT RANGE. ALL MODELS FEATURE 24-PIN DIP COMPATIBLE CONFIGURATION. AN INTERNAL INPUT ∏ (Pi) FILTER IS STANDARD AND IS USED TO REDUCE REFLECTED RIPPLE CURRENT. ALL MODELS HAVE A PHENOLIC UL94V0-RATED CASE.

DIMENSIONS:
1.25" x 0.80" x 0.52"
(31.75) x (20.32) x (13.21)mm

BLOCK DIAGRAM



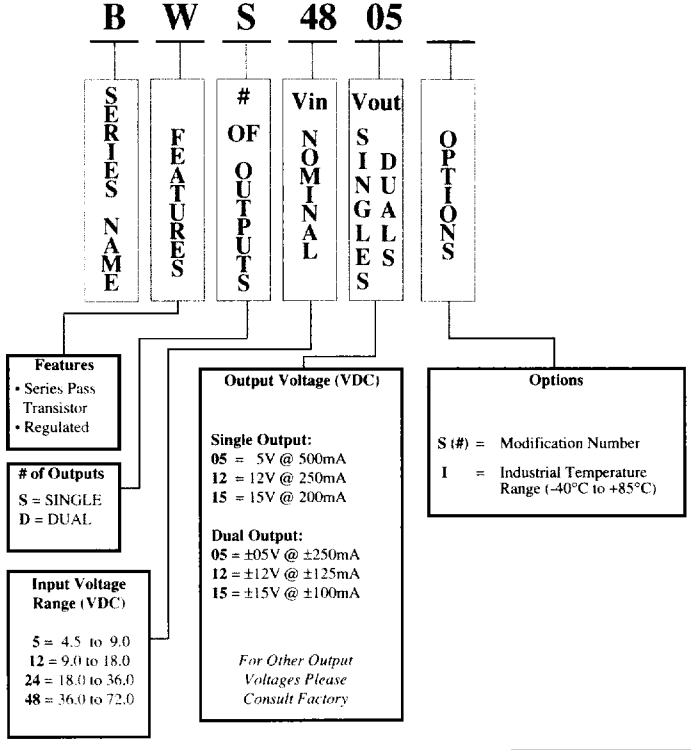
FEATURES

- Industry Standard Pin Out
- 500 VDC I/O Isolation
- Continuous Short Circuit Protection
- Input ∏ (Pi) Filter

APPLICATIONS

- A/D-D/A Converters
- RS-232 Drivers
- Industrial Control Circuit
- Operational Amplifiers
- Bias Power For RAMs, ROMs, PROMs

PART NUMBER SELECTION GUIDE



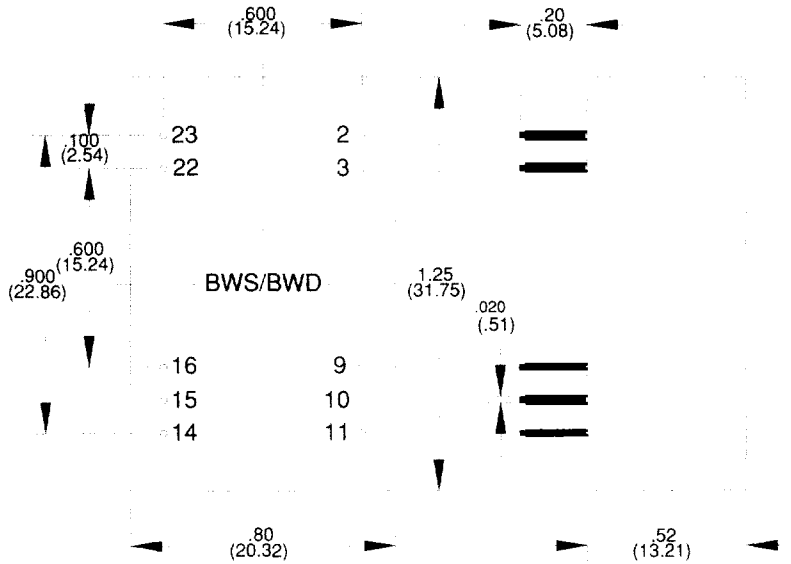
PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS	NOTES:
GENERAL:						1. No derating required up to a maximum case temperature of 85°C. Internal Power Dissipation = Pout* (1-Eff) / Eff.
Switching Frequency	180	200	220	KHz		
Isolation Voltage						
Input to Output	500			VDC		
Input to Case	500			VDC		
Output to Case	500			VDC		
Isolation Resistance						
Input to Output	10^9			Ohms		
Isolation Capacitance						
Input to Output	80			pF		
Short Circuit Protection					Note 3	2. Provided for input fuse selection.
ENVIRONMENTAL:						
Operating Temperature						
Commercial Grade	-25		85	°C	Note 1	
Storage Temperature	-40		125	°C	Ambient	3. Continuous Short Circuit Protection is provided. For dual output units the short circuit current on each individual output is equivalent to the short circuit current for a single output unit.
Operating Humidity			95	%	Non-Condensing	
Storage Humidity			95	%	Non-Condensing	
INPUT:						
Input Voltage						
5 Vin	4.50	5.00	9.00	VDC		
12 Vin	9.00	12.00	18.00	VDC		
24 Vin	18.00	24.00	36.00	VDC		
48 Vin	36.00	48.00	72.00	VDC		
Input Current						
5 Vin			0.76	Amps	Note 2	
12 Vin			0.42	Amps	Note 2	
24 Vin			0.21	Amps	Note 2	
48 Vin			0.11	Amps	Note 2	4. Long term continous operation in this mode is not recommended. Converter will auto-restart once short has been removed.
Input Ripple Current			20%	Iin max		
Reverse Input Current			100%	Iin max		
No Load Input Power			0.70	W		
OUTPUT:						
Singles:						
Voltage Accuracy			±1.00%	Vout	Full Load	
Load Regulation			±1.00%	Vout	10% to 100%	
Line Regulation			±1.00%	Vout	LL to HL	
Current Limit			180%	Iout	Note 3	
Duals:						
Voltage Accuracy						
+Vout			±1.00%	Vout	Full Load	
-Vout			±1.00%	Vout	Full Load	
Load Regulation						
+Vout			±1.00%	Vout	10% to 100%	
-Vout			±1.00%	Vout	10% to 100%	
Line Regulation			±1.00%	Vout	LL to HL	
Temp. Coefficient			0.02%	/°C		
Voltage Stability			0.05%	Vout		
Ripple and Noise			1.00%	Vout	p-p, 20 MHz BW	
Transient Response						
1/4 to Full load			500	µS	1% Error Band	

• All specifications typical at +25°C Nominal Line and Full Load unless otherwise noted.
• Specifications subject to change without notice.

PIN #	SINGLE	DUAL
1 & 24	No Pin	No Pin
2 & 23	-Vin / +Vin	-Vin / +Vin
3 & 22	-Vin / +Vin	-Vin / +Vin
4 & 21	No Pin	No Pin
5 & 20	No Pin	No Pin
6 & 19	No Pin	No Pin
7 & 18	No Pin	No Pin
8 & 17	No Pin	No Pin
9 & 16	No Connect	No Connect
10 & 15	NC / -Vout	Com / Com
11 & 14	NC / NC	NC / NC
12 & 13	NC / +Vout	-Vout / +Vout

BOTTOM VIEW

Mechanical tolerances are ± 0.04"



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All dimensions are in inches (MM)