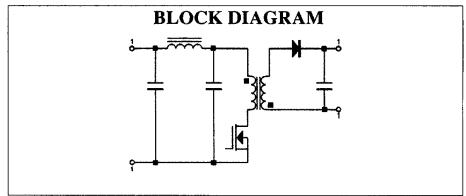




STANDARD DC/DC CONVERTERS WITH SINGLE OR DUAL REGULATED OUTPUTS. AN INTERNAL  $\Pi$  (Pi) INPUT FILTER IS STANDARD AND IS USED TO REDUCE REFLECTED RIPPLE CURRENT. ALL MODELS FEATURE A NICKEL-PLATED COPPER CASE WITH SIX-SIDED SHIELDING.



**DIMENSIONS:** 1.00" x 2.00" x 0.40" (25.40) x (50.80) x (10.16)mm

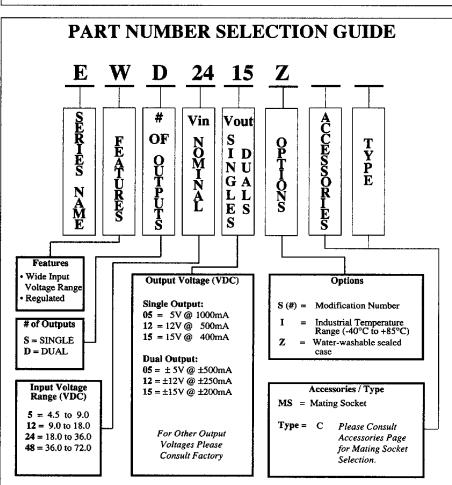


#### **FEATURES**

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

#### APPLICATIONS

- Telecommunication
- · Data Processing Equipment
- · Industrial Equipment
- Medical Equipment
- · A/D and D/A Converters
- Distributed Power Systems





## INTERNATIONAL POWER DEVIC

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PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS	NOTES:
GENERAL:	170	200	240	7711.		
Switching Frequency	170	200	240	KHz		1. No derating required
Isolation Voltage Input to Output	500			VDC	·	up to a maximum case
Input to Catput  Input to Case	200			VDC	Note 5	temperature of 85°C.
Output to Case				VDC	Note 5	See efficiency and
Isolation Resistance				,,,,	110000	thermal impedence
Input to Output	10 <sup>9</sup>			Ohms		data provided. Internal
Short Circuit Protection					Note 3	_
ENVIRONMENTAL:						Power Dissipation
Operating Temperature	-25		85	°C	Note 1	= Pout* (1-Eff) / Eff.
Storage Temperature	-40		125	°C	Ambient	
Operating Humidity			95%		Non-Condensing	2. Provided for input
Storage Humidity INPUT:			95%		Non-Condensing	fuse selection.
Input Voltage						
5 Vin	4.50	5.00	9.00	VDC		3. Continuous Short Cir-
12 Vin	9.00	12.00	18.00	VDC		cuit Protection is pro-
24 Vin	18.00	24.00	36.00	VDC		vided. For dual output
48 Vin	36.00	48.00	72.00	VDC		units the short circuit
Input Current						
5 Vin			1.00	Amps	Note 2	current on each indi-
12 Vin			0.80	Amps	Note 2	vidual output is
24 Vin 48 Vin			0.40 0.20	Amps	Note 2 Note 2	equivalent to the short
Input Ripple Current			20%	Amps Iin max	Note 2	circuit current for a
Reverse Input Current			100%	Iin max		single output unit.
OUTPUT:			100%	IIII IIIux		
Singles:						4. Long term continuous
Voltage Accuracy			±1.00%	Vout	Full Load	operation in this mode
Load Regulation			±1.00%		10% to 100%	is not recommended.
Line Regulation			±1.00%		LL to HL	
Current Limit			130%	Iout	Note 3, Note 4	Converter will auto-re-
Duals:						start once short has
Voltage Accuracy +Vout			±1.00%	Vout	Full Load	been removed.
-Vout			$\pm 1.00\%$		Full Load	
Load Regulation			±1.00 /b	v out	1 uii Doud	5. For 48V input models,
+Vout			±1.00%	Vout	10% to 100%	the case is connected
-Vout			±1.00%		10% to 100%	to +Vin. For all other
Line Regulation			±1.00%		LL to HL	input voltages, the case
Current Limit			130%		Note 3, Note 4	is tied to either -Vout
Temp. Coefficient			±0.02%			(Singles) or the Out-
Voltage Stability			±0.05%		20 MH- DW	
Ripple and Noise Transient Response			1.00%	Vout	p-p, 20 MHz BW	put Common (Duals).
25% Step						
Load change			500	μS	1% Error Band	
			200	ر د	170 21101 24114	
			•			
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<sup>\*</sup> All specifications typical at +25°C Nominal Line and Full Load unless otherwise noted. \* Specifications subject to change without notice.



20 Linden Street, Boston, MA



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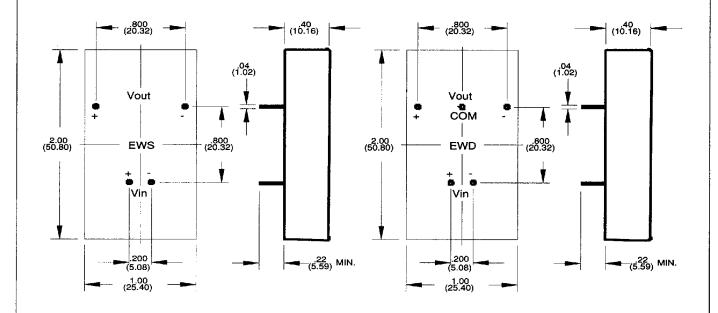




Notes:		 	

#### **BOTTOM VIEW**

Mechanical tolerances are  $\pm 0.04$ "



Specifications are subject to change without notice.

All Dimensions are in inches (MM)





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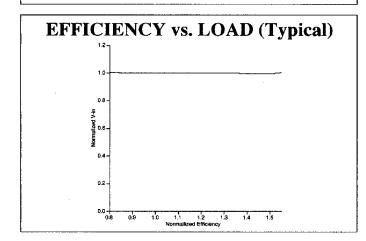
#### PIN CONNECTIONS

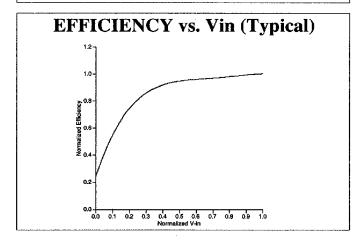
,	1			
PIN#	SINGLE	DUAL		
1	+Vin	+Vin		
2	-Vin	-Vin		
3	+Vout	+Vout		
4	No Pin	Common		
5	-Vout	-Vout		

#### THERMAL IMPEDANCE

	Typical R <sub>0</sub> CA
NATURAL CONVECTION	22°C/W
100 LFPM	18°C/W
200 LFPM	11°C/W
300 LFPM	8.9°C/W
400 LFPM	6.8°C/W

Thermal Impedance data depends upon many environmental factors and may vary from application to application. The numbers provided are intended as a guide. The exact thermal performance should be validated in each application.





Notes:				
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