



7.5 Watt Wide Input DC to DC Converters



FEATURES

7.5W Isolated Output
24-Pin DIP Package
2:1 Input Range
Efficiency To 83%

Regulated Outputs
Pi Input Filter
Continuous Short Circuit Protection

SPECIFICATIONS

All Specifications are Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

- ◆ Input Filter..... Pi Type
- ◆ Voltage Accuracy..... $\pm 2\%$ max.
- ◆ Voltage Balance (Dual)..... $\pm 1\%$ max.
- ◆ Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
- ◆ Ripple & Noise (20MHz BW)..... (5V)..... 75mVp-p max.
(12/15V)..... 100mVp-p max.
- ◆ Short Circuit Protection..... Continuous
- ◆ Line Regulation, Single/Dual...(HL-LL)... $\pm 0.2\%$ max.
- ◆ Load Regulation, Single...(FL-10%FL)... $\pm 0.5\%$ max.
Dual...(FL-25%FL)..... $\pm 1.0\%$ max.
- ◆ Efficiency..... See Model List
- ◆ Isolation Voltage..... 1500VDC min.
- ◆ Isolation Resistance..... $10^9\Omega$ min.
- ◆ Switching Frequency..... 300KHz typ.
- ◆ Operating Temperature Range..... -25°C To +71°C
- ◆ Case Temperature 100°C max.
- ◆ Cooling..... Free-Air Convection
- ◆ Storage Temperature Range..... -40°C To +100°C
- ◆ Dimensions CASE D..... 1.25 x 0.8 x 0.4 Inches
(31.8 x 20.3 x 10.2 mm)
- ◆ Case Material..... Black Coated Copper With
Non-Conductive Base

MODEL LIST

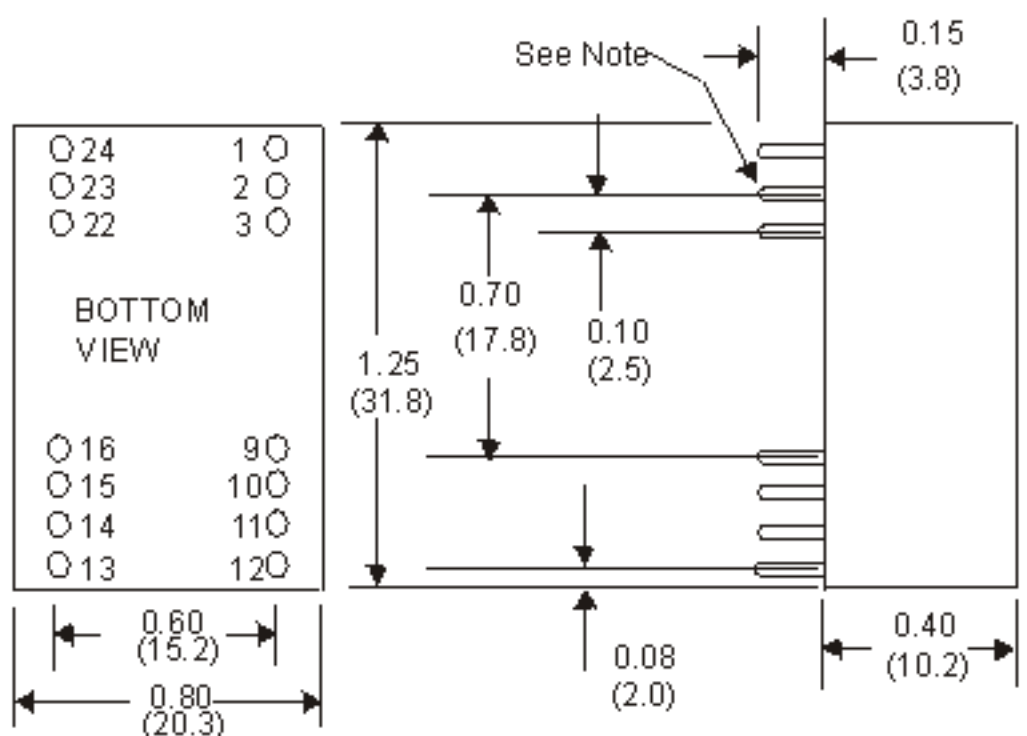
Model Number	Input Voltage	Output Voltage	Output Current	Input Current No Load	Input Current Full Load	EFF.	Case
Single Output Models							
EA7.5-11	9-18VDC	5VDC	1500mA	25mA	801mA	78%	D
EA7.5-12	9-18VDC	12VDC	625mA	25mA	762mA	82%	D
EA7.5-13	9-18VDC	15VDC	500mA	25mA	762mA	82%	D
EA7.5-21	18-36VDC	5VDC	1500mA	20mA	396mA	79%	D
EA7.5-22	18-36VDC	12VDC	625mA	20mA	381mA	82%	D
EA7.5-23	18-36VDC	15VDC	500mA	20mA	381mA	82%	D
EA7.5-31	36-72VDC	5VDC	1500mA	10mA	195mA	80%	D
EA7.5-32	36-72VDC	12VDC	625mA	10mA	190mA	82%	D
EA7.5-33	36-72VDC	15VDC	500mA	10mA	109mA	82%	D
Dual Output Models							
EA7.5-14	9-18VDC	$\pm 5\text{VDC}$	$\pm 750\text{mA}$	30mA	791mA	79%	D
EA7.5-15	9-18VDC	$\pm 12\text{VDC}$	$\pm 310\text{mA}$	30mA	753mA	83%	D
EA7.5-16	9-18VDC	$\pm 15\text{VDC}$	$\pm 250\text{mA}$	30mA	753mA	83%	D
EA7.5-24	18-36VDC	$\pm 5\text{VDC}$	$\pm 750\text{mA}$	25mA	386mA	81%	D
EA7.5-25	18-36VDC	$\pm 12\text{VDC}$	$\pm 310\text{mA}$	25mA	377mA	83%	D
EA7.5-26	18-36VDC	$\pm 15\text{VDC}$	$\pm 250\text{mA}$	25mA	377mA	83%	D
EA7.5-34	36-72VDC	$\pm 5\text{VDC}$	$\pm 750\text{mA}$	15mA	193mA	81%	D
EA7.5-35	36-72VDC	$\pm 12\text{VDC}$	$\pm 310\text{mA}$	15mA	188mA	83%	D
EA7.5-36	36-72VDC	$\pm 15\text{VDC}$	$\pm 250\text{mA}$	15mA	188mA	83%	D

Note: Nominal Input Voltage 12, 24 or 48 VDC

CASE D

All Dimensions in Inches (mm)

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Note: Pin Size is 0.020" inch (0.5mm) DIA or 0.020 x 0.014 Inch

Pin connections 1.5K VDC					
Pin#	Single Output	Dual Output	Pin#	Single Output	Dual Output
1	NP	NP	13	NP	NP
2	-V Input	-V Input	14	+V Output	+V Output
3	-V Input	-V Input	15	NC	NC
5	NP	NP	16	-V Output	Common
9	NC	Common	22	+V Input	+V Input
10	NC	NC	23	+V Input	+V Input
11	NC	-V Output	24	NP	NP
12	NP	NP			

*NP-NO PIN

*NC-NO CONNECTION WITH PIN



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