

DC/DC Converters

XPiQ inc.

Intelligent Design Quality Product



**20 Watts
WE Series**



High Density
•
Fully Regulated Outputs
•
Efficiency to 86%
•
Low Voltage Outputs
•
Surface Mount Package Option
•
2:1 Input Range

Specification

Input

- Input Voltage Range • See Table
- Input Filter • π Network

Output

- Voltage Accuracy • $\pm 1.0\%$ max
- External Voltage Trim Range • $\pm 10\%$
- Line Regulation (low line to high line) • $+0.2\%$ max
- Load Regulation (1/4 to Full Load) • $+1.0\%$ max
- Transient Response • $< 500\mu$ sec.
- 25% Step Load Change
- Ripple & Noise (20MHz BW) • 75mV p-p max
- Temperature Coefficient • $\pm 0.02\%/^{\circ}\text{C}$ max
- Short Circuit Protection • Continuous
- Remote On/Off Control: •
- Logic Compatibility CMOS or Open Collector TTL
- E_C On > 5.5 VDC or Open Circuit
- E_C Off < 1.8 VDC
- Control Common Referenced to -V Input

General

- Switching Frequency • 500 kHz typ.
- Efficiency • See Table
- Isolation (Input-Output) • 500 VDC (1000 Mohm/80pF)

Environmental

- Operating Temperature • -25°C to $+71^{\circ}\text{C}$
- Case Temperature • 100°C max
- Storage Temperature • -40°C to 100°C
- EMI/RFI • Six-sided Continuous Shield
- Case Material • Black Coated Copper with Non-Conductive Base

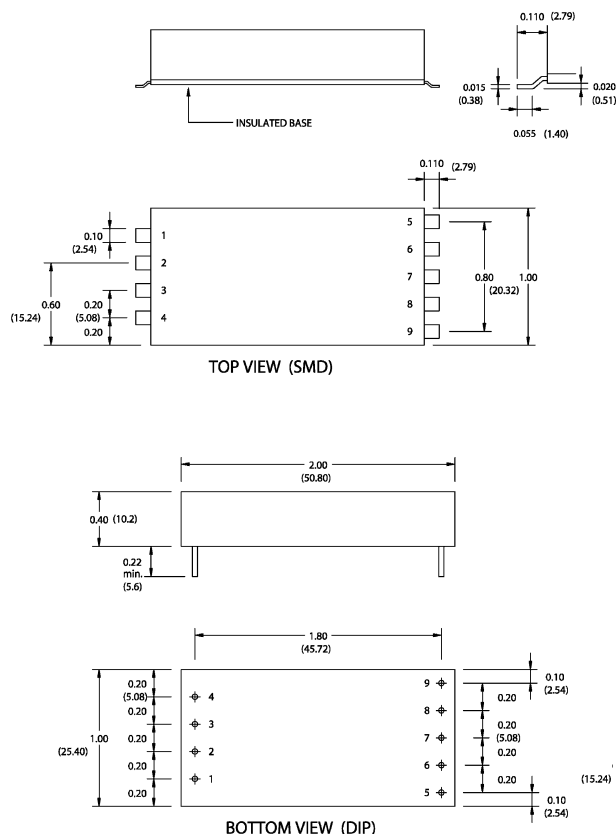
OUTPUT VOLTAGE & CURRENT RATINGS						WE
Model	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency
				No Load	Full Load	
WE320	18-36 VDC	2.5 VDC	5000 mA	30 mA	645 mA	81
WE300	18-36 VDC	3.3VDC	5000 mA	20 mA	828 mA	83
WE301	18-36 VDC	5 VDC	4000 mA	20 mA	992 mA	84
WE420	36-72 VDC	2.5 VDC	5000 mA	25 mA	318 mA	82
WE400	36-72 VDC	3.3 VDC	5000 mA	25 mA	410 mA	84
WE401	36-72 VDC	5 VDC	4000 mA	25 mA	485 mA	86

Notes

Nominal Input Voltage is 24 VDC for WE3XX models and 48VDC for WE4XX models.

For optional SMT version:
Add suffix "M" to part number

Mechanical Details



PIN	THROUGH HOLE PACKAGE	SMT PACKAGE
1	REMOTE ON/OFF	REMOTE ON/OFF
2	NO PIN	NO CONNECT
3	-V INPUT	-V INPUT
4	+V INPUT	+V INPUT
5	TRIM	TRIM
6	NO PIN	NO CONNECT
7	-V OUTPUT	-V OUTPUT
8	NO PIN	NO CONNECT
9	+V OUTPUT	+V OUTPUT

Dimensions in inches (mm)
Specifications subject to change.