

Features

- 6-24W Non-Isolated Output
- Efficiency to 94%
- 24-Pin DIP Package
- Input LC Filter
- Regulated outputs



Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Effic.	Case
				No Load	Full Load		
VAQ20-Q5-S3R3	4.7-6VDC	3.3VDC	2000mA	15mA	1553mA	85%	A
VAQ20-Q12-S3R3	9-32VDC	3.3VDC	2000mA	15mA	655mA	84%	A
VAQ20-Q12-S5	9-32VDC	5VDC	2000mA	15mA	947mA	88%	A
VAQ20-Q12-S12	9-32VDC	12VDC	830mA	15mA	954mA	87%	A
VAQ20-Q12-S15	9-32VDC	15VDC	666mA	15mA	957mA	87%	A
VAQ20-Q24-S12	16-32VDC	12VDC	1600mA	15mA	860mA	93%	A
VAQ20-Q24-S15	19-32VDC	15VDC	1600mA	15mA	1064mA	94%	A

Input

Input Voltage Range	5.0V 4.7-6V 12V 9-32V 24V 16-32V 24V 19-32V
Input Filter	LC Type

Output

Voltage Accuracy	±2.0% max.
Ripple & Noise	20MHz BW, 3.3V, 5V 12V, 15V
Temperature Coefficient	±0.05%/°C
Over Current Protection	120%~150%
Line Regulation ¹	±0.5% max
Load Regulation ²	±0.5% max

General Specifications

Efficiency	see table
Switching Frequency	150KHz, Type
Isolation Voltage (Input/Output)	Non-Isolated
Operating Temperature Range	-25°C to +71°C
Case Temperature	100°C
Cooling	Free-Air Convection
Storage Temperature Range	-40°C to +100°C
Dimensions	1.25x0.8x0.4 inches (31.8x20.3x10.2mm)

Case Material

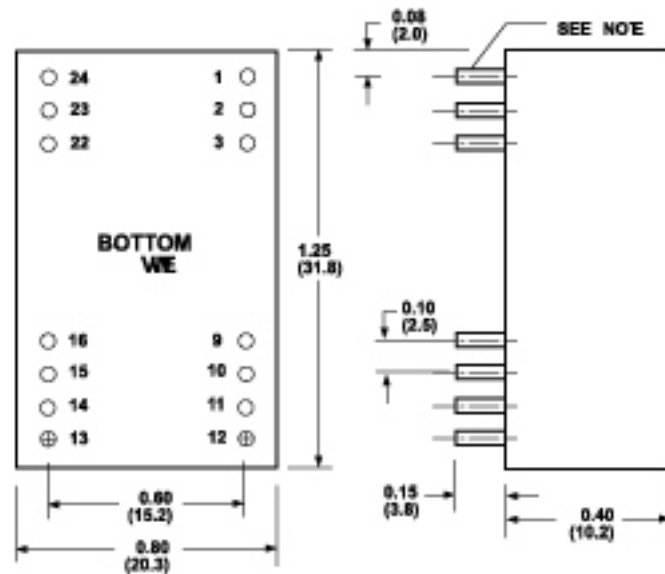
Standard Models	Black Coated Copper with Non-Conductive base
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NOTES:

1. Measured from high line to low line
2. Measured from full load to 10% load

Case A

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions in Inches(mm)
Tolerance .xx= ±0.02, .xxx= ±0.010



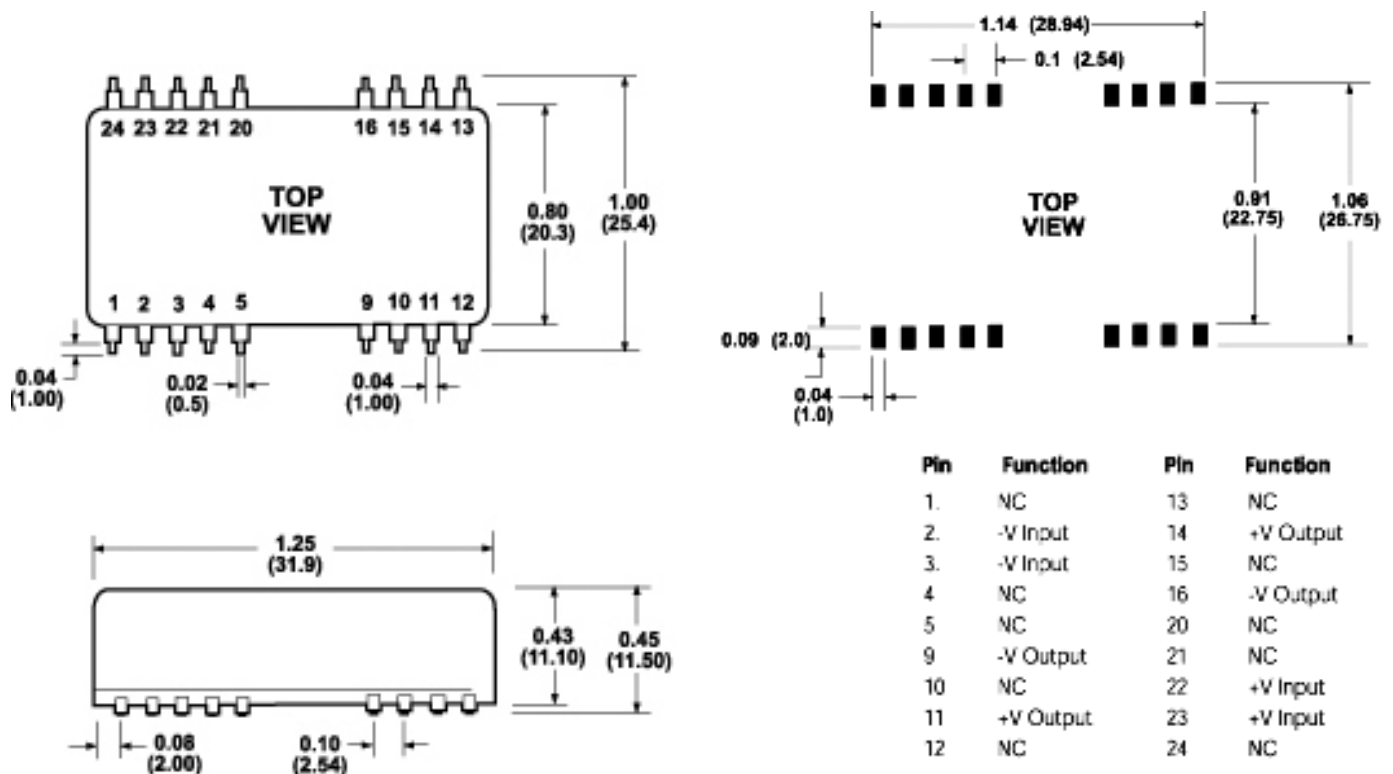
PIN CONNECTION

Pin	Function	Pin	Function
1.	NP	24	NP
2.	-V Input	23	+V Input
3.	-V Input	22	+V Input
9.	-V Output	16	-V Output
10.	NC	15	NC
11.	+V Output	14	+V Output
12.	NP	13	NP

*NP-NO PIN

*NC-NO CONNECTION WITH PIN

Case AS



Pin	Function	Pin	Function
1.	NC	13	NC
2.	-V Input	14	+V Output
3.	-V Input	15	NC
4.	NC	16	-V Output
5.	NC	20	NC
9.	-V Output	21	NC
10.	NC	22	+V Input
11.	+V Output	23	+V Input
12.	NC	24	NC

*NC-NO CONNECTION WITH PIN