

Features:

- 2 : 1 Ultra Wide Input Range.
- 2W DIP-16 Package.
- Efficiency to 81% typ.
- Continuous Short Circuit Protection
- Lead free design , RoHS compliant
- Single & Dual Output
- UL 94V-0 Package Material.
- 1500Vdc Isolation.
- No External capacitor Needed.
- Operating Temperature Range-40 to +85
- Case Temperature 38 @ Ta = 25 .


Selection Guide

Part Number	Input Voltage Range	Output Voltage	Output current Max.	Efficiency Max.	Capacitive Load Max.
A2WR-053.3/D	4.5 ~ 9 VDC (5 VDC nominal)	3.3/±3.3 VDC	500/±250 mA	68 %	1000/470 μF
A2WR-0505/D		5/±5 VDC	400/±200 mA	73 %	1000/470 μF
A2WR-0509/D		9/9 VDC	222/±111 mA	74 %	470/220 μF
A2WR-0512/D		12/±12 VDC	166/±83 mA	75 %	200/100 μF
A2WR-0515/D		15/±15 VDC	134/±67 mA	75 %	100/47 μF
A2WR-123.3/D	9 ~ 18 VDC (12 VDC nominal)	3.3/±3.3 VDC	500/±250 mA	69 %	1000/470 μF
A2WR-1205/D		5/±5 VDC	400/±200 mA	75 %	1000/470 μF
A2WR-1209/D		9/±9 VDC	222/±111 mA	78 %	470/220 μF
A2WR-1212/D		12/±12 VDC	166/±83 mA	80 %	200/100 μF
A2WR-1215/D		15/±15 VDC	134/±67 mA	80 %	100/47 μF
A2WR-243.3/D	18 ~ 36 VDC (24VDC nominal)	3.3/±3.3 VDC	500/±250 mA	70 %	1000/470 μF
A2WR-2405/D		5/±5 VDC	400/±200 mA	78 %	1000/470 μF
A2WR-2409/D		9/±9 VDC	222/±111 mA	81 %	470/220 μF
A2WR-2412/D		12/±12 VDC	166/±83 mA	83 %	200/100 μF
A2WR-2415/D		15/±15 VDC	134/±67 mA	83 %	100/47 μF
A2WR-483.3/D	36 ~ 72 VDC (48 VDC nominal)	3.3/±3.3 VDC	500/±250 mA	73 %	1000/470 μF
A2WR-4805/D		5/±5 VDC	400/±200 mA	78 %	1000/470 μF
A2WR-4809/D		9/±9 VDC	222/±111 mA	81 %	470/220 μF
A2WR-4812/D		12/±12 VDC	166/±83 mA	83 %	200/100 μF
A2WR-4815/D		15/±15 VDC	134/±67 mA	83 %	100/47 μF

Note : * add suffix “/SMD” for SMD package.

* add suffix “B” for B package.

e.g.A2WR-2405B = B package.

Electrical Specifications

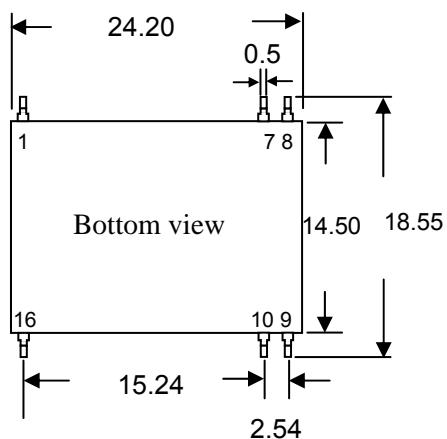
Input Filter	Pi type.			
Voltage Accuracy		MIN.	TYP.	MAX.
			±2%	
Line Regulation	Low line to High line @Max. load			±0.5%
Load Regulation	20% ~ 100% load		±0.5%	
Ripple & Noise	@ 20MHZ BW			50mVp-p
Operating Ambient Temperature		-40		+85
Storage Temperature		-50		+125
Short-Circuit Protection	Continuous , Automatic recovery			
Operating Frequency (Pulse Frequency Modulation,PFM)	Vin = Nominal Input	100KHz min		
Isolation Test Voltage	Tested for 1 second Minute.	MIN.	TYP.	MAX.
		1500Vdc		
Isolation Capacity				30pF
Isolation Resistance		1GΩ		
Humidity				95%
MTBF (MIL-HDBK-217F)	25		4366*10 ³ hours	

Physical Specifications

Case Material	Non conductive Black Plastic
Potting Material	Epoxy(UL94V-0)
Weight	4.6g typ

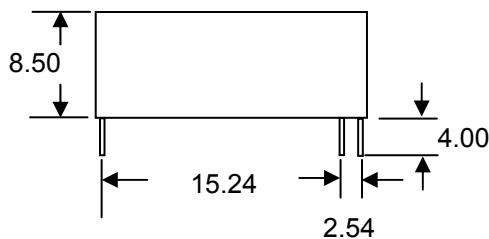
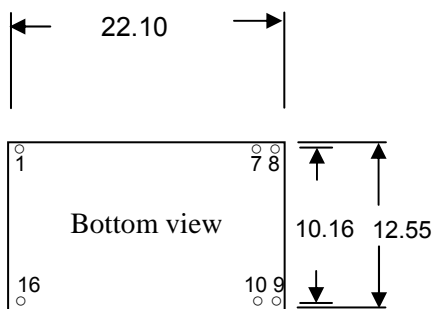
Outline Dimensions

16 PIN DIP SMD Package



PIN CONNECTIONS		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	-Vin(GND)	-Vin(GND)
7	NC	NC
8	NC	Com
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

16 PIN DIP B Package



Unit : mm
Tolerance : $\pm 0.35\text{mm}$

Note:

- To measure the output ripple & noise with short runs by 0.1uF/ 50V @ 20MHz nominal input and full load. Please see as below :

