

Typical Performance

FEATURES

- Wide Input voltage range (4:1)
- Typical Efficiency:95%
- Switching frequency: 300KHz $\pm$ 30 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate 1500VDC
- PCB Board in-line type installs



3-Years Product Warranty

Technology parameter Test condition:General Nominal Line,Tc=25℃, Rated resistant load unless other wispecified

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	9	24	36	W 4:1
	18	48	72	W 4:1

Output Feature

Voltage accuracy		Vo1;Vo2,Vo3	$\pm 1.0\%$, $\pm 2.0\%$
Line regulation		Vo1;Vo2,Vo3	$\pm 0.2\%$, $\pm 1.5\%$
Load regulation	20% ~ 100%	Vo1;Vo2,Vo3	$\pm 0.5\%$, $\pm 4.0\%$
Ripple and noise	20MHz BM Vo $\leq$ 5.0V, $\leq 50\text{mVp-p}$; Vo $\geq 48\text{V}$, $\leq 180\text{mVp-p}$; Other, $\leq 100\text{mVp-p}$;		
Dynamic response	25%	$\Delta \text{Vo1}/\Delta t$	$\pm 4.0/500\text{us}\%$
Voltage adjust	Standard output voltage	TRIM	$\pm 10\%$ (adjustable)
Start delay time	typical		$\leq 200\text{mS}$

General Feature

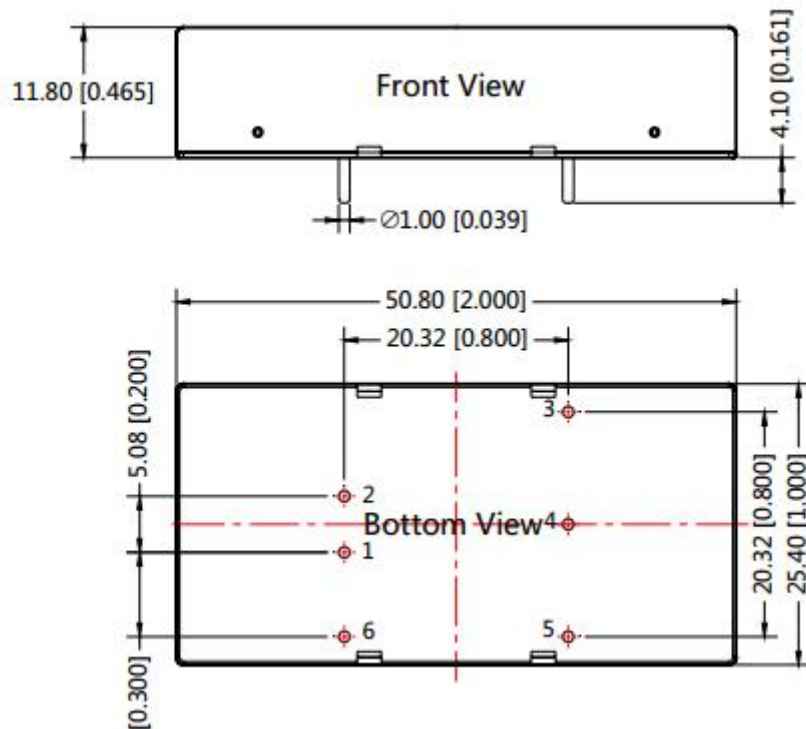
Efficiency	Normal input , full load	Vo $\leq 5.0\text{V}$,80% typical	Vo $> 5.0\text{V}$, 87% typical
Switching frequency		300KHz typical	Max 330KHz
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃
Max case temperature			+95℃
Relative humidity			10%~90%

case material			Metal case
Isolation Voltage	500Vdc $\leq$ 0.5mA/1min, 500Vdc $\leq$ 0.5mA/1min		
MTBF	1000KHrs		

Product Program

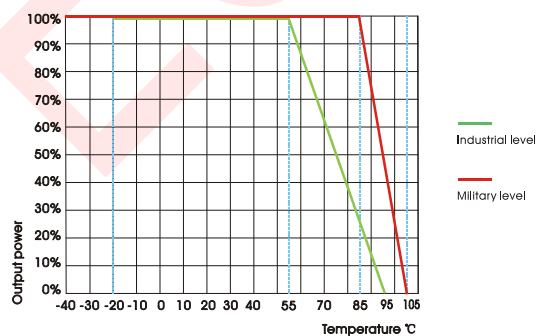
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
URB2405LD-20WR3	24V(9~36V)	5V	4000mA				
URB2409LD-20WR3		9V	2222mA				
URB2412LD-20WR3		12V	1660mA				
URB2415LD-20WR3		15V	1330mA				
URB2424LD-20WR3		24V	830mA				
URB4805LD-20WR3	48V(18~72V)	5V	4000mA				
URB4809LD-20WR3		9V	2222mA				
URB4812LD-20WR3		12V	1660mA				
URB4815LD-20WR3		15V	1330mA				
URB4824LD-20WR3		24V	830mA				

Mechanical Dimension



UNIT:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
URB_LD-20WR3	50.80 x 20.40 x 11.80mm(2*1*0.465 inch)	

Pin Assignment

PIN NO.	1	2	3	4	5	6	7			
Single O/P	GND	Vin	+Vo	TRIM	0V	CTRL				

*Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.

ECCO