ECCO Electronics Technology Co.,ltd

2.5W AC/DC converter

Typical Performance

FEATURES

- Wide input voltage range
- Typical efficiency ： 78%
- Switching frequency：60 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate
- PCB board in-line type installs
- Plastics case

3-Years Product Warranty

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

Input Feature	Min	Nom	Max	Notes
Input voltage （Vac）	165(200Vdc)	220	265(380Vdc)	N
	85(120Vdc)	220	265(380Vdc)	W
Frequency range(Hz)	47		440	
Remote ON/OFF				NONE

Output Feature			
Voltage accuracy		Vo1；Vo2，Vo3；	±1.0%，±3.0%
Line regulation	Nominal load,full voltage input range	Vo1；Vo2，Vo3；	±0.1%；±1.5%
Load regulation	Nominal Input voltage,20% ~ 100% nominal load	Vo1；Vo2，Vo3；	±0.5%；±3.0%
Ripple and noise	20MHz BM,test by 20M oscillograph		≤1%Vo
Peak deviation	25% Rated load vary	ΔVo1/ Vo1	≤±5.0%
Dynamic response setting time			≤200us

General Feature			
Efficiency			78% typical
Switching frequency			60KHz typical
Operating temperature			-25℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃

Max case temperature			+90℃
Relative humidity			10%~90%
Case material			Metal case
Isolation voltage		Input-Output	2500Vac/1min
		Input-Case	2500Vac/1min
		Output-Case	500Vac/1min
Temperature coefficient			≤±0.03%/℃
Cooling			Natural convection
MTBF	BELLCORE TR332，（25℃）		2X10^{5}Hrs

NOTE:

(1)The module working environment temperature more than 70 ℃ need derating use (- 0.15W/℃), but the max shell temperature shall not be more than 90 ℃.

(2)Capacitive load:

The output of the module can be applied electrolytic capacitor, but too much capacity and low ESR may cause the module instability, or cause current limiting point become low,we recommend 100 uF/A of the output capacitance , the current is rated output current.

Product Nomination Method

example	L A 5 – 220 S 05 ① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide input voltage range：AC85-265V Narrow input voltage range：AC165-265V	⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output
②	Power adaptation mode：A（AC-DC）	⑥	output voltage
③	Output Power(W)	⑦	
④	Normal input voltage		

Product Program

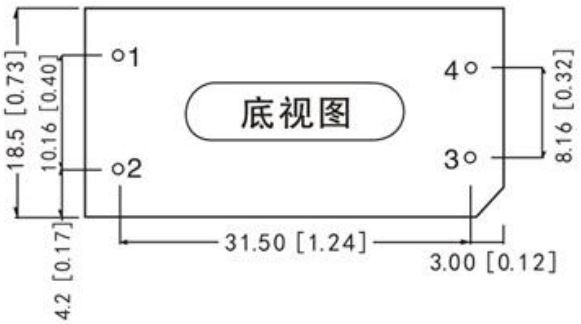
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
LA2.5-220S3V3	220V(85~265VAC) 120~380VDC	3.3V	758mA				
LA2.5-220S05		5V	500mA				
LA2.5-220D05		+5V	250mA	-5V	250mA		
LA2.5-220S09		9V	278mA				

LA2.5-220S12		12V	210mA				
LA2.5-220D12		+12V	100mA	-12V	100mA		
LA2.5-220S15		15V	167mA				
LA2.5-220D15		+15V	83mA	-15V	83mA		
LA2.5-220S24		24V	100mA				
LA2.5-220D24		+24V	52mA	-24V	52mA		

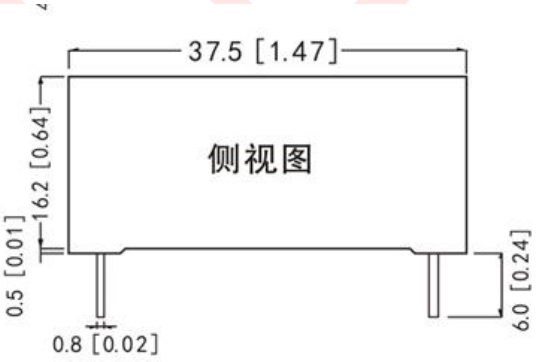
*NOTE:

The output ripple noise (peak value) measurement, please reference module test instructions.

Mechanical Dimension



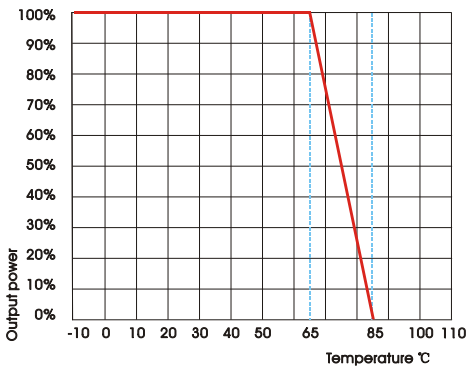
BOTTON VIEW



LATERAL VIEW

Unit:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
2.5W	37.0*18.5*16.2mm(1.47*0.73*0.64inch)	

Pin Assignment

PIN	1	2	3	4						
Single O/P	AC(L)	AC(N)	V0	+Vo						

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