

Typical performance

- ◆ Wide Input voltage range (2:1)
- ◆ Typical Efficiency 85%
- ◆ Switching frequency: 300KHz
- ◆ Over current/Short circuit protection, Self-furbish
- ◆ Input-output isolate
- ◆ Board in-line type installs
- ◆ Metal case, Low Output Ripple



Technology parameter

Test condition: General Nominal Line, Tc=25 °C, Rated resistant load unless other wise specified.

Input	Min(v)	Nom(v)	Max(v)	Notes
Vdc Input voltage	9	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
Remote ON/OFF(Low level remote)	ON	High level or vacant-Turn on		3.5Vdc ~ +Vin
	OFF	Low level or connect ground-Turn off		≤0.3Vdc
Input undervoltage protection	Lower than the low-input voltage protection , Self-furbish			

Output

Voltage accuracy		Vo1,Vo2	±1.0%, ±3.0%
Line regulation	Nominal Load,full voltage range	Vo1,Vo2	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1,Vo2	±0.5%, ±4.0%
Ripple and noise	20MHz BM (Full Load) Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p		
Dynamic response	25% Nominal load step change	ΔVo1/Δt	±4.0/500μ s%
Voltage adjust	Nominal output	TRIM	±10% Adjustable
Turn-on delay time	Typical value		≤200mS

General			
Efficiency	Nominal input, Full load	$V_o \leq 5.0V$, 80% Typical	$V_o > 5.0V$, 85% Typical
Switching frequency		300KHz Typical	MAX 330KHz
Operating temperature	Free air	Industrial Level	-25°C ~ +55°C
		Military Level	-40°C ~ +85°C
Storage temperature		Industrial Level	-40°C ~ +105°C
		Military Level	-55°C ~ +120°C
Max case temperature		Industrial Level	+100°C
		Military Level	+110°C
Relative humidity			10%~90%
Case material	Metal case		
Isolation Voltage	Input-output 1500 Vdc $\leq$ 0.5mA/1min; Input-case 500Vdc $\leq$ 0.5mA / 1min		
MTBF	2X10 ⁵ Hrs		

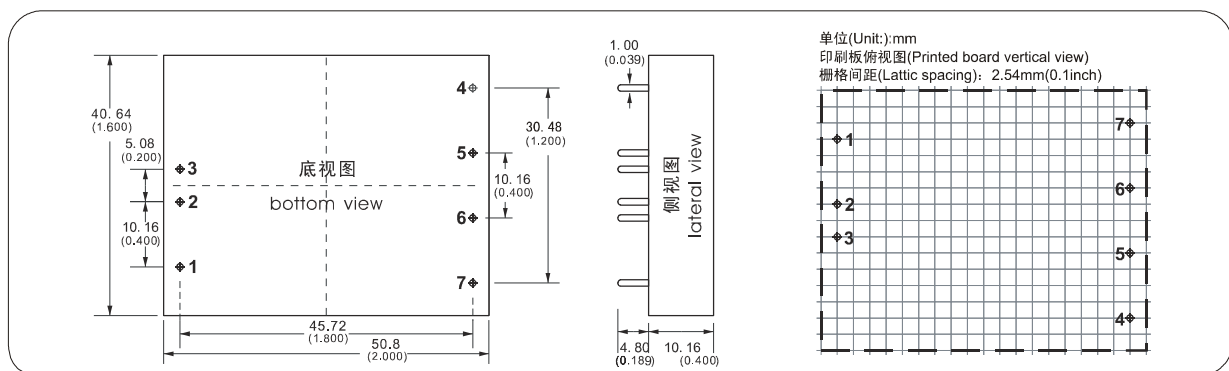
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD15-□S05C1	12 V (9~18V) 24V (18~36V) 48V (36~72V) 110V(72~144V)	5V	3000mA				
WD15-□S09C1		9V	1600mA				
WD15-□S12C1		12V	1250mA				
WD15-□S15C1		15V	1000mA				
WD15-□S24C1		24V	625mA				
WD15-□S48C1		48V	310mA				
WD20-□S05C1		5V	4000mA				
WD20-□S09C1		9V	2220mA				
WD20-□S12C1		12V	1660mA				
WD20-□S15C1		15V	1330mA				
WD20-□S24C1		24V	830mA				
WD20-□S48C1		48V	410 mA				
WD15-□D05C1		+5V	1500 mA	-5V	1500 mA		

WD15-□D09C1		+9V	830 mA	-9V	830 mA		
WD15-□D12C1		+12V	625 mA	-12V	625mA		
WD15-□D15C1		+15V	500 mA	-15V	500 mA		
WD15-□D24C1		+24V	310 mA	-24V	310 mA		
WD20-□D05C1		+5V	2000 mA	-5V	2000 mA		
WD20-□D09C1		+9V	1110 mA	-9V	1110 mA		
WD20-□D12C1		+12V	830 mA	-12V	830 mA		
WD20-□D15C1		+15V	660 mA	-15V	660 mA		
WD20-□D24C1		+24V	410 mA	-24V	410 mA		

☐ Shows the nominal value of input voltage, due to space limitations ,the above list is only for some products, If other than a list of products, please contact the Company's sales department.

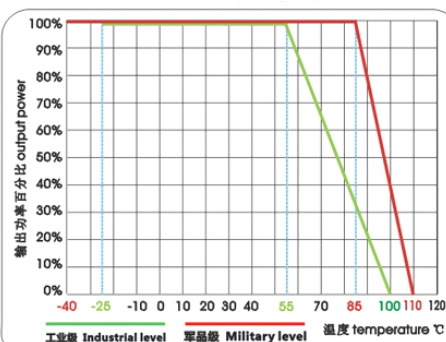
Mechanical Data



Mechanical Data

Packing Series No	L x W x H	
C1	50.80 × 40.64× 10.16mm	2.000× 1.600 × 0.400inch

TYPICAL TEMPERATURE CURVE



Pin Assignments

Single	1	2	3	4	5	6	7
	REM	-Vin	+Vin	NP	+Vout	GND	TRIM
Dual	1	2	3	4	5	6	7
	REM	-Vin	+Vin	+Vout1	COM	-Vout2	TRIM

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