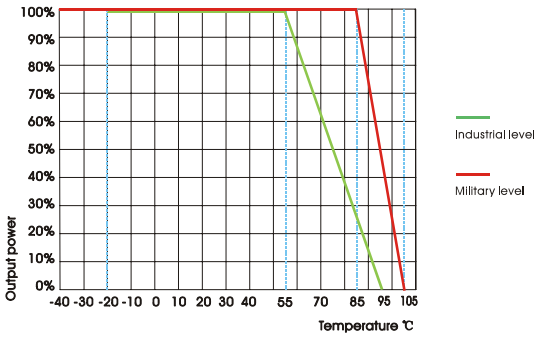
Typical performance

- ⊙Wide Input voltage range (2:1 or 4:1)
- ⊙Typical Efficiency:80%
- ⊙Switching frequency：300KHz ± 30 KHz
- ⊙Short circuit protection,Self-furbish
- ⊙Input-output isolate (500/1000/1500Vdc)
- ⊙ PCB Board in-line type installs
- ⊙Metal case, Low Output Ripple

Temperature graph



Technology parameter

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

Input Features	Min	Nom	Max	Notes
Input voltage(Vdc)	4.5	5	9	W 2:1
	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	75	110	145	W 2:1
	10	12	36	W 4:1
	18	48	72	W 4:1
Remote ON/OFF	Non			
Under voltage protect				

Output Features

Voltage accuracy		Vo1,V02	±1.0%, ±2.0%
Line regulation		Vo1,V02	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1,V02	±0.5%, ±4.0%
Ripple and noise	20MHz BM Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p;		
Dynamic response	25%	△Vo1/△t	±4.0/500us%
Voltage adjust	Normal input voltage	Non	

Start delay time	typical		≤200mS

General Features

Efficiency	Normal input ， full load	Vo≤5.0V,75% typical	Vo>5.0V，80% typical
Switching frequency		300KHz typical	Max 330KHz
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
			-40℃ ~ +85℃
Storage temperature		-40℃ ~ +105℃	
Max case temperature		+95℃	
Relative humidity			10%~90%
case material		Metal case	
Isolation Voltage	500/1000/1500 Vdc ≤0.5mA/1min, 500Vdc ≤0.5mA/1min		
MTBF	$2X10^5$Hrs		

Product Nomination Method

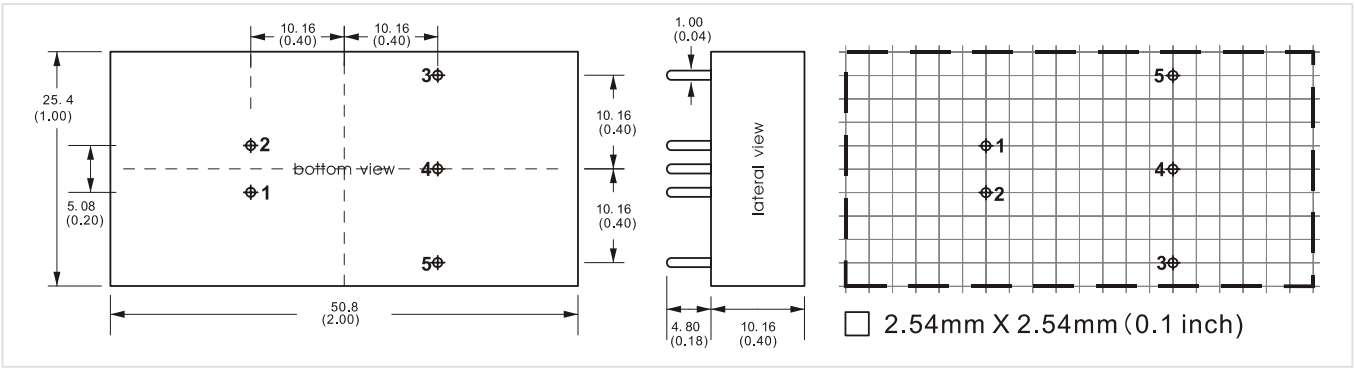
example	W D 5 – 48 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide voltage input：2：1	⑥	output voltage
②	Power adaptation mode：D（DC-DC）	⑦	J:military level,Non:Industry level
③	Output power(W)		G:input-output Isolate
④	Normal input voltage		I:Dual Route output Isolate
⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output		W:Super Wide input voltage

Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD10-□S3V3	5V（4.5~9V） 12 V（9~18V） 24V（18~36V） 48V（36~72V） 110V（72~144V） 12V（10~36V）W 48V（18~72V）W	3.3V	2000mA				
WD10-□S05		5V	2000mA				
WD10-□S09		9V	1110mA				
WD10-□S12		12V	830mA				
WD10-□S15		15V	660mA				
WD10-□S24		24V	410mA				
WD12-□S3V3		3.3V	2400mA				
WD12-□S05		5V	2400mA				

WD12-□S09		9V	1330mA				
WD12-□S12		12V	1000mA				
WD12-□S15		15V	800mA				
WD12-□S24		24V	500mA				
WD15-□S05		5V	3000 mA				
WD15-□S12		12V	1200 mA				
WD10-□D3V3		+3.3V	1000 mA	-3.3V	1000 mA		
WD10-□D05		+5V	1000 mA	-5V	1000 mA		
WD10-□D09		+9V	550 mA	-9V	550 mA		
WD10-□D12	5V（4.5~9V）	+12V	410 mA	-12V	410 mA		
WD10-□D15	12 V（9~18V）	+15V	330 mA	-15V	330 mA		
WD10-□D24	24V（18~36V）	+24V	210 mA	-42V	210 mA		
WD12-□D3V3	48V（36~72V）	+3.3V	1200 mA	-3.3V	1200 mA		
WD12-□D05	110V（72~144V）	+5V	1200 mA	-5V	1200 mA		
WD12-□D09	12V（10~36V）	+9V	660 mA	-9V	660 mA		
WD12-□D12	48V（18~72V）	+12V	500 mA	-12V	500 mA		
WD12-□D15		+15V	400 mA	-15V	400 mA		
WD12-□D24		+24V	250 mA	-24V	250 mA		
WD15-□D05		+5V	1500 mA	-5V	1500 mA		
WD15-□D12		+15V	600 mA	-15V	600 mA		

Mechanical Data



Mechanical Data

Packing	L x W x H ： mm	Packing No.

	50.80 x 25.40 x 10.16	200100DC

Pin Assignments

PIN NO.	1	2	3	4	5					
S	-Vin	+Vin	+Vout	NP	GND					
D	-Vin	+Vin	+Vout1	COM	-Vout2					

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