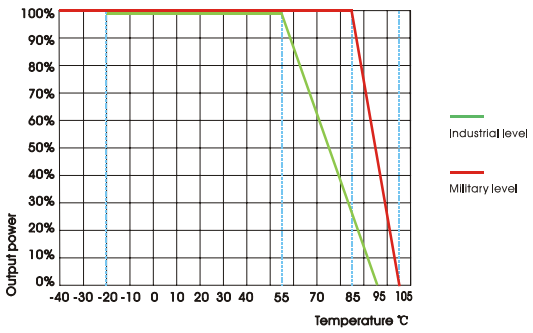
Typical performance

- ⊙Wide Input voltage range (2:1 or 4:1)
- ⊙Typical Efficiency:85%
- ⊙Switching frequency：300KHz ± 30 KHz
- ⊙Overcurrent/Short circuit protection,Self-furbish
- ⊙Input-output isolate (500/1000/1500/2000Vdc)
- ⊙ PCB Board in-line type installs

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)	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	72	110	145	W 2:1
	10	12	36	W 4:1
	18	48	72	W 4:1
Turn on voltage	3.5Vdc		+Vin	converter guaranteed on when REM pin is left open
Turn off voltage	0		0.3Vdc	
Under voltage protect				

Ouput Features

Voltage accuracy		Vo1;Vo2,Vo3	±1.0%, ±2.0%
Line regulation		Vo1;Vo2,Vo3	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1;Vo2,Vo3	±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	Standard output voltage	TRIM	±10%(adjustable)

Start delay time	typical		≤200mS

General Features

Efficiency	Standard output voltage	Vo≤5.0V,80% typical	Vo>5.0V，87% typical
Switching frequency		300KHz typical	Max 330KHz
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
Storage temperature		-40℃ ~ +105℃	-55℃ ~ +120℃
Max case temperature		+95℃	+105℃
Relative humidity			10%~90%
case material		Metal case	
Isolation Voltage	500/1000/1500/2000 Vdc ≤0.5mA/1min,500Vdc ≤0.5mA/1min		
MTBF	$2X10^5$Hrs		

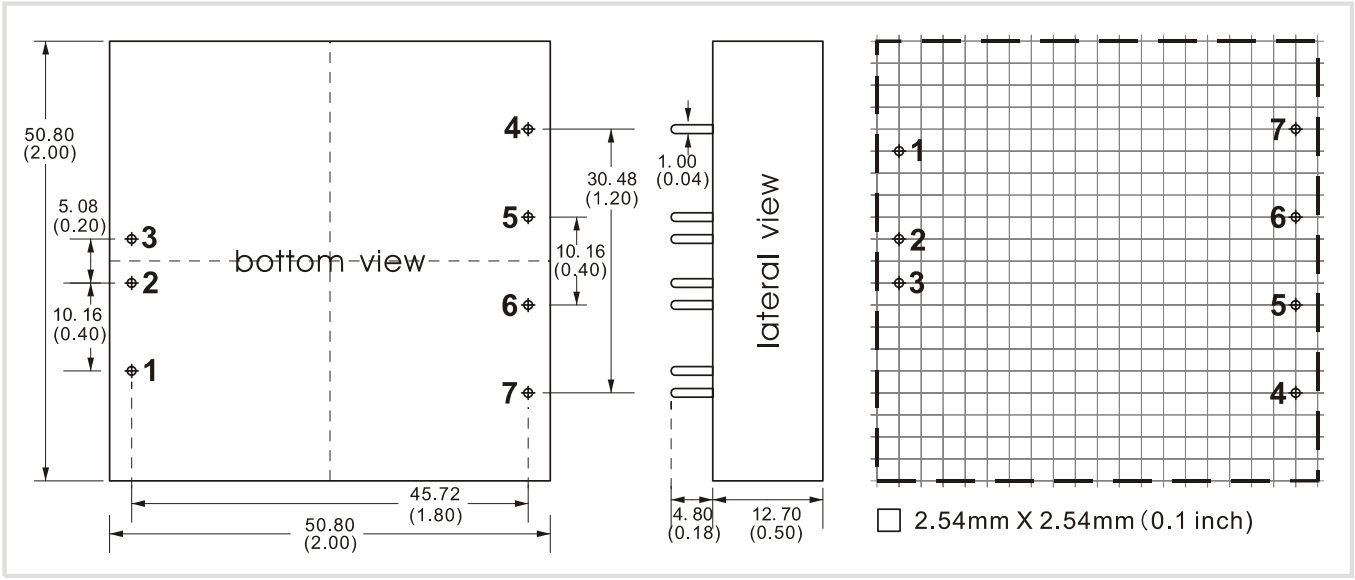
Product Nomination Method

example	W D 25 – 48 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide input voltage：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
WD25-□S3V3	12 V（9~18V） 24V（18~36V） 48V（36~72V） 110V（72~144V） 12V（10~36V）W 48V（18~72V）W	3.3V	5000mA				
WD25-□S05		5V	5000mA				
WD25-□S09		9V	2770mA				
WD25-□S12		12V	2080mA				
WD25-□S15		15V	1660mA				
WD25-□S24		24V	1040mA				
WD25-□D05		+5V	2500 mA	-5V	2500 mA		
WD25-□D09		+9V	1390 mA	-9V	1390 mA		
WD25-□D12		+12V	1040 mA	-12V	1040 mA		

WD25-□D15		+15V	830 mA	-15V	830 mA		
WD25-□D24		+24V	520 mA	-24V	520 mA		
WD25-□T5-12		+5V	3500 mA	+12V	250 mA	-12V	250 mA
WD25-□T5-15		+5V	3500 mA	+15V	200 mA	-15V	200 mA
WD30-□S05		5V	6000mA				
WD30-□S12		12V	2500mA				
WD30-□S15		15V	2000mA				
WD30-□S24		24V	1250mA				
WD30-□D05		+5V	3000mA	-5V	3000mA		
WD30-□D12		+12V	1250mA	-12V	1250mA		



Mechanical Data

Packing	L x W x H ： mm	Packing No.
	50.80 x 50.80 x 12.70	200200DC

Pin Assignments

PIN No.	1	2	3	4	5	6	7			
S	REM	-Vin	+Vin	NP	+Vout	GND	TRIM			
D	REM	-Vin	+Vin	+Vout1	COM	-Vout2	TRIM			
DI	REM	-Vin	+Vin	+Vout1	GND1	+Vout2	GND2			
T	REM	-Vin	+Vin	+Vout3	+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.