

5 瓦功率输出 (5 Watts of Output Power)  
 宽电压输入 (2:1 Wide Input )  
 输入输出隔离 (Isolated Output)  
 长期短路保护, 自恢复 (Short Circuit Protection, Automatic Recovery)  
 小型化封装 (Mini Package)

### 产品命名方式

YND 5 - 48 S 05

- 输出电压 (Output Voltage): 5V、12V、15V、24V
- 输出模式 (Output Mode): S: 单路 (Single)、D: 双路 (Dual)
- 输入电压 (Input Voltage): 6V、12V、24V、48V
- 输出功率 (Output Power): 5W
- 系列号 (Series): YND

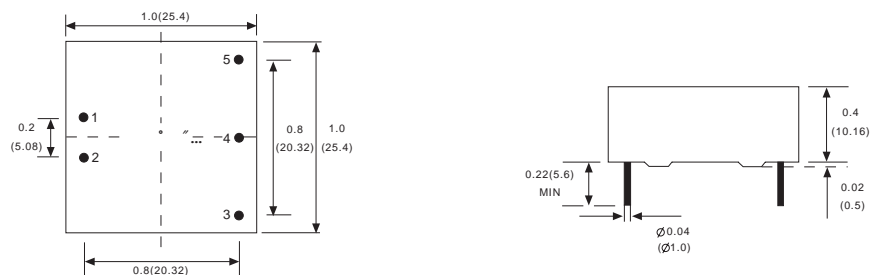
输入特性 Input	Min	Nom	Max	Notes
输入电压 Vdc	4.5	6	9	
Input Voltage	9	12	18	
	18	24	36	
	36	48	72	

输出特性 Output			
输出电压精度		± 1%	Vo1
Setpoint Accuracy		± 3%	Vo2
源效应			
Line Regulation		± 0.2 %	
负载效应			
Load Regulation		± 0.5 %	
动态响应		3% Vo Pk deviation	50~75% load 50~25% load
Dynamic Response		200 μS settling time	
纹波与噪声		50mVp-p	Vo ≤ 5Vdc
Ripple and Noise		100mVp-p	Other
温度系数			
Temperature coefficient		± 0.02%/°C	

综合特性 General			
隔离电压	≥ 500Vdc		Input-Output Input-Case Output-Case
Isolation Voltage			
开关频率		300KHZ	
Switching Frequency			
效率		82%	typ
Efficiency			
MTBF		10 × 10 <sup>5</sup> h	Bellcore TR332, 25°C
工作壳温	-25°C		+85°C
Case Temperature	-43°C		+105°C
储存温度			
Storage Temperature	-40°C		+125°C
相对湿度			
Relative Humidity	10%		90%

# YND 5 Series DC-DC CONVERTER

型号 Model	输入电压 (Vdc) Input Voltage	输出电压 (Vdc) Output Voltage	输出电流 (A) Output Current
YND5-6S03	4.5 ~ 9	3.3	1.2
YND5-6S05	4.5 ~ 9	5.05	1
YND5-6S12	4.5 ~ 9	12	0.42
YND5-6S15	4.5 ~ 9	15	0.33
YND5-6S24	4.5 ~ 9	24	0.21
YND5-12S03	9 ~ 18	3.3	1.2
YND5-12S05	9 ~ 18	5.05	1
YND5-12S12	9 ~ 18	12	0.42
YND5-12S15	9 ~ 18	15	0.33
YND5-12S24	9 ~ 18	24	0.21
YND5-24S03	18 ~ 36	3.3	1.2
YND5-24S05	18 ~ 36	5.05	1
YND5-24S12	18 ~ 36	12	0.42
YND5-24S15	18 ~ 36	15	0.33
YND5-24S24	18 ~ 36	24	0.21
YND5-48S03	36 ~ 72	3.3	1.2
YND5-48S05	36 ~ 72	5.05	1
YND5-48S12	36 ~ 72	12	0.42
YND5-48S15	36 ~ 72	15	0.33
YND5-48S24	36 ~ 72	24	0.21
YND5-6D05	4.5 ~ 9	+5.05/-5.05	+0.5/-0.5
YND5-6D12	4.5 ~ 9	+12/-12	+0.2/-0.2
YND5-6D15	4.5 ~ 9	+15/-15	+0.16/-0.16
YND5-12D05	9 ~ 18	+5.05/-5.05	+0.5/-0.5
YND5-12D12	9 ~ 18	+12/-12	+0.2/-0.2
YND5-12D15	9 ~ 18	+15/-15	+0.16/-0.16
YND5-24D05	18 ~ 36	+5.05/-5.05	+0.5/-0.5
YND5-24D12	18 ~ 36	+12/-12	+0.2/-0.2
YND5-24D15	18 ~ 36	+15/-15	+0.16/-0.16
YND5-48D05	36 ~ 72	+5.05/-5.05	+0.5/-0.5
YND5-48D12	36 ~ 72	+12/-12	+0.2/-0.2
YND5-48D15	36 ~ 72	+15/-15	+0.16/-0.16



管脚定义	1	2	3	4	5
单路	+Vin	-Vin	-Vo	NP	+Vo
双路	+Vin	-Vin	Vo2	COM	Vo1

注：NP 代表无管脚