



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 |
| Dynamic Response | | 200 μS settling time | 50~25% load |
| 纹波与噪声 | | 50mVp-p | Vo ≤ 5Vdc |
| Ripple and Noise | | 100mVp-p | Other |
| 温度系数 | | ± 0.02%/°C | |
| Temperature coefficient | | | |

综合特性 General

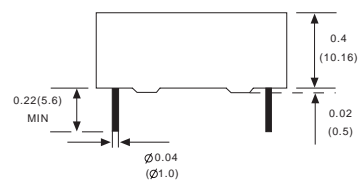
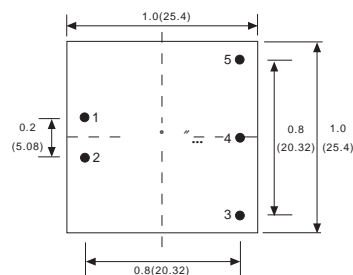
| | | | |
|---------------------|----------|------------------------|----------------------|
| 隔离电压 | ≥ 500Vdc | | Input-Output |
| Isolation Voltage | | | Input-Case |
| | | | Output-Case |
| 开关频率 | | 300KHZ | |
| Switching Frequency | | | |
| 效率 | | 82% | typ |
| Efficiency | | | |
| MTBF | | 10 ×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

YND 5 Series

DC-DC CONVERTER

DC/DC 5W

| 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