



VND5 Series

5 Watts of Output Power
 2:1 Wide Input
 Isolated Output
 Short Circuit Protection, Automatic Recovery
 Mini Package

VND 5 - 12 S 12

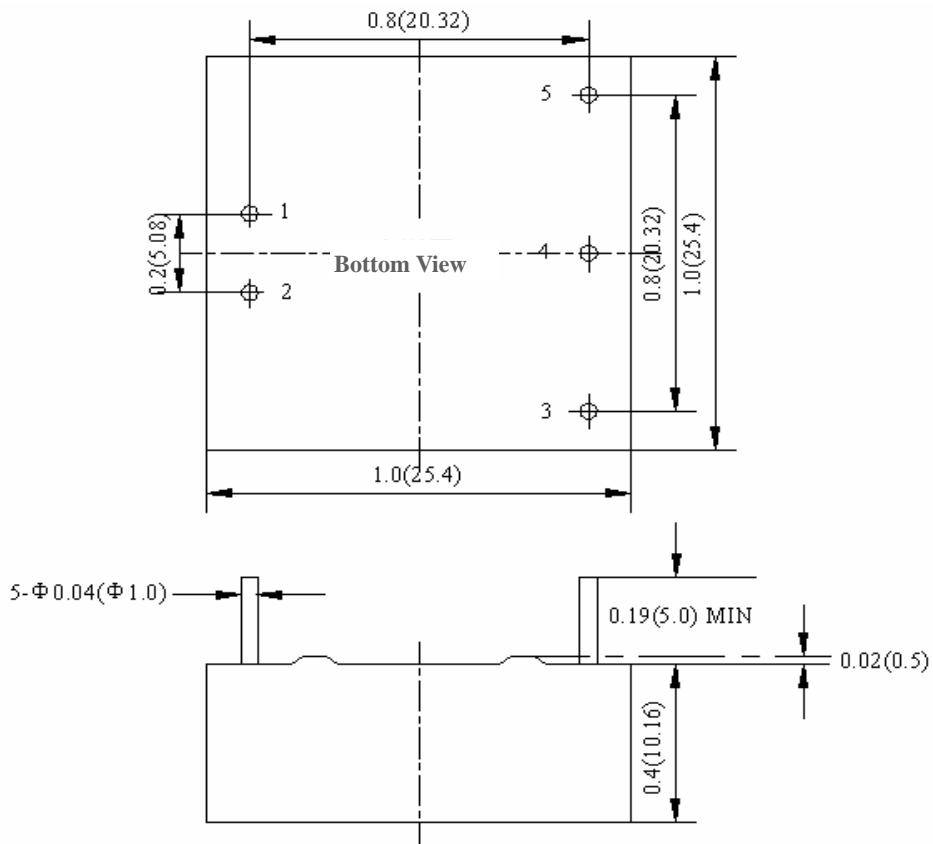
- ① Series: VND
- ② Output Power: 5W
- ③ Input Voltage: 6V、12V、24V、48V、110V
- ④ Output Mode: S: Single、D: Dual
- ⑤ Output Voltage: 5V、12V、15V、24V

Input	Min	Nom	Max	Notes
Input Voltage (Vdc)	4.5	6	9	
	9	12	18	
	18	24	36	
	36	48	72	
	66	110	160	
Output				
Setpoint Accuracy			±1% ±3%	Vo1 Vo2
Line Regulation			±0.2 %	
Load Regulation			±0.5 %	
Dynamic Response			3% Vo Pk deviation 200μS settling time	50~75% load 50~25% load
Ripple and Noise			50mVp-p 100mVp-p	Vo ≤ 5Vdc Other
Temperature		±0.02%/°C		
General				
Isolation Voltage		1500 Vdc 1000 Vdc		Input-Output Input-Output @ Vin=110Vdc
Switching Frequency		300KHz		
Efficiency		80%		typ
Hand Soldering Time			5s	
MTBF		10 × 10 ⁵ h		Bellcore TR332, 25°C
Case Temperature	-25°C -45°C		+85°C +105°C	Military Grade
Storage Temperature	-55°C		+125°C	
Relative Humidity	10%		90%	
Short-Circuit Protection	Continuous Automatic Recovery			

Model List

Model	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (A)
VND5-12S03	9~18	3.3	1.2
VND5-12S05	9~18	5.05	1
VND5-12S12	9~18	12	0.42
VND5-12S15	9~18	15	0.33
VND5-12S24	9~18	24	0.21
VND5-24S03	18~36	3.3	1.2
VND5-24S05	18~36	5.05	1
VND5-24S12	18~36	12	0.42
VND5-24S15	18~36	15	0.33
VND5-24S24	18~36	24	0.21
VND5-48S03	36~72	3.3	1.2
VND5-48S05	36~72	5.05	1
VND5-48S12	36~72	12	0.42
VND5-48S15	36~72	15	0.33
VND5-48S24	36~72	24	0.21
VND5-110S05	66~160	5.05	1
VND5-110S12	66~160	12	0.42
VND5-110S15	66~160	15	0.33
VND5-110S24	66~160	24	0.21
VND5-6D05	4.5~9	+5.05/-5.05	+0.5/-0.5
VND5-6D12	4.5~9	+12/-12	+0.2/-0.2
VND5-6D15	4.5~9	+15/-15	+0.16/-0.16
VND5-12D05	9~18	+5.05/-5.05	+0.5/-0.5
VND5-12D12	9~18	+12/-12	+0.2/-0.2
VND5-12D15	9~18	+15/-15	+0.16/-0.16
VND5-24D05	18~36	+5.05/-5.05	+0.5/-0.5
VND5-24D12	18~36	+12/-12	+0.2/-0.2
VND5-24D15	18~36	+15/-15	+0.16/-0.16
VND5-48D05	36~72	+5.05/-5.05	+0.5/-0.5
VND5-48D12	36~72	+12/-12	+0.2/-0.2
VND5-48D15	36~72	+15/-15	+0.16/-0.16
VND5-110D05	66~160	+5.05/-5.05	+0.5/-0.5
VND5-110D12	66~160	+12/-12	+0.2/-0.2
VND5-110D15	66~160	+15/-15	+0.16/-0.16

Mechanical Drawing



Pin Definition

PIN	1	2	3	4	5
Single	+Vin	- Vin	- Vo	NP	+Vo
Dual	+Vin	- Vin	Vo2	COM	Vo1

Remark: NP for no pin