

# SNS16A

## Non-isolated DC/DC POL Converters

**Total output current** 16A  
**Input voltages** 5V  
**#of outputs** Single output



## SPECIAL FEATURES

- Delivers 16A of output current
- High efficiency
- Low putput ripple & noise
- Small size and low profile ..... 50.8mm×13.97mm×8.64mm (SIP package)
- Cost-efficient open frame design
- Single - in - line SIP package
- Remote on/off
- Remote sense
- Trimmable output voltage via external resistor
- Output over current protection
- Over temperature protection
- Wide operating temperature range ..... -40 °C~85 °C

## ELECTRICAL SPECIFICATIONS

### SNS 16A - 5 SIP Packages

- Efficiency ..... 94% @ 3.3V
- Input voltage range ..... 4.5 - 5.5V
- Output voltage ..... 1.0 - 3.3V
- Voltage tolerance ..... ±2.0%
- Line regulation ..... ±0.3%
- Load regulation ..... ±0.4%
- Switching frequency ..... 300kHz
- \*Ripple & noise ..... 45mVp-p (@3.3V)
- MTBF (MIL-HDBK-217F)..... 8.0×10<sup>5</sup> hrs

\* Ripple & noise is tested / specified over a 20MHz bandwidth and may be reduced with external filtering.

## Ordering Information

V : SIP package H : SMT package

Input	Output	Maximum Power	Ripple&Noise max	Efficiency Typ.	Model Number
4.5-5.5V	1.0V@16A	16.0W	40mVp-p	84%	SNS16A-5-1R0V
4.5-5.5V	1.2V@16A	19.2W	40mVp-p	86%	SNS16A-5-1R2V
4.5-5.5V	1.5V@16A	24.0W	40mVp-p	88%	SNS16A-5-1R5V
4.5-5.5V	1.8V@16A	28.8W	45mVp-p	89%	SNS16A-5-1R8V
4.5-5.5V	2.0V@16A	32.0W	45mVp-p	91%	SNS16A-5-2R0V
4.5-5.5V	2.5V@16A	40.0W	45mVp-p	92%	SNS16A-5-2R5V
4.5-5.5V	3.3V@16A	52.0W	45mVp-p	94%	SNS16A-5-3R3V

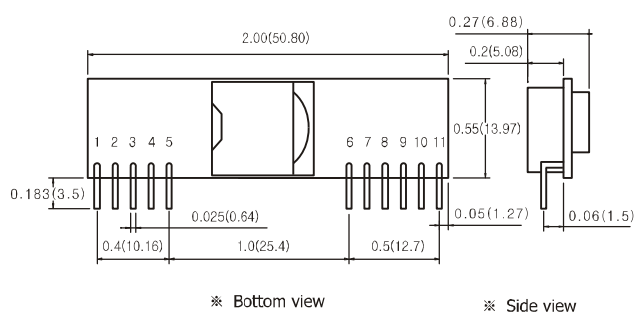
1. Typical at Ta = +25°C under nominal line voltage and full load conditions, unless otherwise noted. All models are tested and specified with external input, output capacitors. (Cin=100µF X2 Cout=10µF), and forced air-condition of 7.0 ft<sup>3</sup>/mm. These capacitors are necessary to accommodate Our test equipment.
2. Ripple & Noise is tested / specified over a 20MHz bandwidth and may be reduced with external filtering. See I/O Filtering.
3. These device have no minimum-load requirement and will regulate Under no-load conditions. Regulation specification describe the output voltage deviation as the line voltage or load is varied from its minimum value to either extreme.

## Pin assignments

### Single Output (SIP)

1. +Vout
2. +Vout
3. Sense
4. +Vout
5. COM
6. COM
7. +Vin
8. +Vin
9. No Pin
10. Trim
11. ON/OFF

## Dimensions



<SIP TYPE>

### NOTES

1. All dimensions are in inches (mm)
2. Weight : 8.0g or less (SIP)