

SNS6A

Non-isolated DC/DC POL Converters

Total output current 6A
Input voltages 5V
#of outputs Single output



SPECIAL FEATURES

- Delivers 6A of output current
- High efficiency
- Low output ripple & noise
- Small size and low profile 20.3mm×11.43mm×5.84mm
- Cost-efficient open frame design
- SMT package
- Remote on/off
- Trimmable output voltage via external resistor
- Output over current protection
- Over temperature protection
- Wide operating temperature range -40 °C ~85 °C
- Storage temperature range -55 °C ~125 °C
- Cooling method convection, forced airflow

ELECTRICAL SPECIFICATIONS

SNS 6A - 5 SMT Packages

- Efficiency 93% @ 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 40mVp-p (@3.3V)
- MTBF (MIL-HDBK-217F) 1.5×10^6 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@6A	6.0W	40mVp-p	80%	SNS6A-5-1R0H
4.5-5.5V	1.2V@6A	7.2W	40mVp-p	81%	SNS6A-5-1R2H
4.5-5.5V	1.5V@6A	9.0W	40mVp-p	85%	SNS6A-5-1R5H
4.5-5.5V	1.8V@6A	10.8W	40mVp-p	86%	SNS6A-5-1R8H
4.5-5.5V	2.0V@6A	12.0W	40mVp-p	88%	SNS6A-5-2R0H
4.5-5.5V	2.5V@6A	15.0W	40mVp-p	90%	SNS6A-5-2R5H
4.5-5.5V	3.3V@6A	19.8W	40mVp-p	93%	SNS6A-5-3R3H

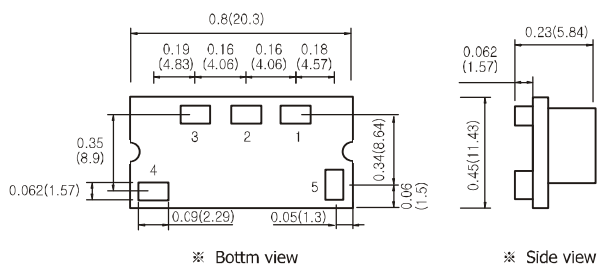
1. Typical at Ta = +25°C under nominal line voltage and full load conditions, unless otherwise noted. All models are tested and specified with external input and output capacitors. (Cin=100µF X2 Cout=10µF), These capacitors are necessary to accommodate Our test equipment.
2. Ripple & Noise is tested / 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 (SMT)

1. +Vout
2. Trim
3. COM
4. +Vin
5. ON/OFF

Dimensions



<SMT TYPE>

NOTES

1. All dimensions are in inches (mm)
2. Weight : 2.4g or less (SMT)