

SNS6A Series

NON-ISOLATED DC-DC POL CONVERTER



FEATURES 5V Inputs

- Delivers 6A of Output Current
- High Efficiency
- Compact Footprint / Low Profile
- Single-in-Line SMT Package
- Cost-Efficient Open Frame Design
- Remote On/Off Control (CNT) (Active Low)
- Trimmable Output Voltage via External Resistor
- Low Output Ripple / Noise
- Over Current Protection (OCP)
- Over Temperature Protection (OTP)
- 3 Year Warranty

ELECTRICAL SPECIFICATIONS

SNS6A - 5 Packages

• Input Range	4.5 - 5.5V				
• Efficiency	93%@3.3V				
• Remote On/Off Control	<table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td style="font-size: 2em;">{</td> <td>On : Open, 0 - 1.0V</td> </tr> <tr> <td style="font-size: 2em;">}</td> <td>Off : +1.2V to +Vin</td> </tr> </table>	{	On : Open, 0 - 1.0V	}	Off : +1.2V to +Vin
{	On : Open, 0 - 1.0V					
}	Off : +1.2V to +Vin					
• Output Voltages	1.0 - 3.3V				
• Output Voltage Tolerance	±2.0%				
• Line Regulation	±0.3% Max.				
• Load Regulation	±0.4% Max.				
• Switching Frequency	300kHz				
• * Ripple and Noise	40mVp-p (@3.3V)				

ENVIRONMENTAL

• Operating Temperature Range	.....	-40°C ~ 85°C
• Storage Temperature Range	.....	-55°C ~ 125°C
• Lead Temperature (Soldering , 10sec)	.....	+300°C
• Thermal ShUTDOWN	.....	+135°C
• MTBF (MIL-HDBK-217F)	.....	1.5 x 10 ⁶ hrs

* Ripple & Noise is tested / Specified over a 20MHz bandwidth and may be reduced with external filtering.

ORDERING INFORMATION

Input	Output	Maximum Power	Ripple&Noise Max.	Efficiency Typ.	Model Number
4.5 - 5.5V	1.0V@6.00A	6.00W	40mVp-p	80%	SNS6A-5-1R0H
4.5 - 5.5V	1.2V@6.00A	7.20W	40mVp-p	81%	SNS6A-5-1R2H
4.5 - 5.5V	1.5V@6.00A	9.00W	40mVp-p	85%	SNS6A-5-1R5H
4.5 - 5.5V	1.8V@6.00A	10.80W	40mVp-p	86%	SNS6A-5-1R8H
4.5 - 5.5V	2.0V@6.00A	12.00W	40mVp-p	88%	SNS6A-5-2R0H
4.5 - 5.5V	2.5V@6.00A	15.00W	40mVp-p	90%	SNS6A-5-2R5H
4.5 - 5.5V	3.3V@6.00A	19.80W	40mVp-p	93%	SNS6A-5-3R3H

H : SMT package

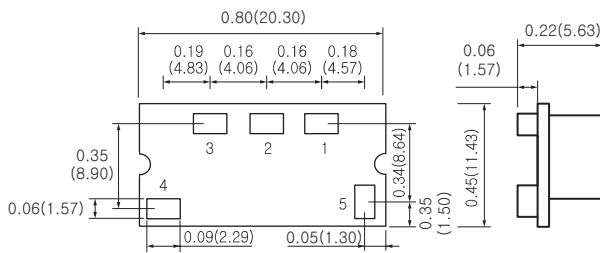
1. Typical at Ta = +25°C under nominal line voltage and full load conditions, unless otherwise noted. All models are tested and specified with external input and output capacitors. (Cin=100uF X 2 Cout = 10uF), These capacitors are necessary to accommodate our test equipment.
2. Ripple & Noise is tested / 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. TRM
3. COM
4. +Vin
5. CNT

DIMENSIONS



[SMT TYPE]

NOTE 1 All dimension are in inches (mm)
2 Weight : 2.2g or less