

SIVI-LDO1910

TSMC 180nm-G (1P5M)

MAIN FEATURES

- Designed on TSMC 180nm non pure 5V process
- Supply a load current up to 10mA
- Input voltage ranges from 2.5V to 5.5V
- Output Voltage is 1.9V
- Low Quiescent current
- Operating Temperature -40C° to 125C°

IP DESCRIPTION

SiVi-LDO1910 is a voltage regulator with low quiescent current while supplying a load current up to 10mA. The regulator is fully integrated with no need of any external components. High supply rejection ratio is provided with super noise performance is provided which is required by clock generators, ADCs and other noise sensitive analog blocks.

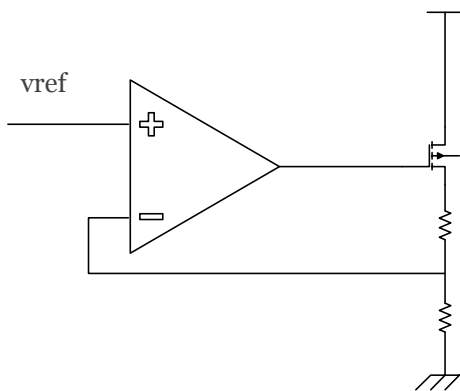
SiVi-LDO1910 is silicon proven on TSMC – 180nm non pure 5V technology.

ELECTRICAL SPECIFICATIONS

Spec / Result		Min	Typ	Max	Unit
Supply Voltage		2.5		5.5	V
Temperature Range		-40	27	125	°C
Output Voltage			1.9		V
Output Voltage Accuracy		-2		2	%
Load Current				10	mA
PSRR	@1kHz		-65		dB
	@1MHz		-15		
Quiescent Current				100	uA
Spot noise @100kHz				100	nV/√Hz

PIN DESCRIPTION

Pin Name	Direction	Description
vdd	Input	Analog supply rail
vss	Input	Analog ground rail
Iref_10uA	Input	10uA Bandgap current internally referred for reference generation
LDO_pd	Input	Power down signal for the LDO
vout	Output	Output voltage for the LDO



SiVi-LDO1910 Block Diagram

