

**LDO Solutions**  
SLVT178F



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**The Right LDO for Your Application**



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## Noise Sensitive Applications

I <sub>OUT</sub> (A)	Device	Noise (μV <sub>RMS</sub> )
1	TPS7A35	3.8
1	TPS7A88 (Dual)	3.8
1	TPS7A47	4.2
3/4	TPS7A84/ 5	4.4
0.8	LP38798	5
0.2	LP8900 (Dual)	6
0.15/ 0.25	LP5900/ 7	6.5
0.3/ 0.5	LP5910/ 2	12
0.15	TPS7A49	12.7
0.2/ 1	TPS7A30/ 33 (-V <sub>OUT</sub> )	14/16

## Powering MCU

MCU	Device	Why?
C2000™	TPS792	2800nA LDO
C2000™	TPS796	400nA LDO
C2000™	TPS795	500nA LDO
C2000™	TPS715A	3μA I <sub>q</sub> , 2μV <sub>IN</sub>
C2000™	TPS7A16	5μA I <sub>q</sub> , 60V <sub>IN</sub>
MSP430™	TPS7A40	50V <sub>IN</sub>
MSP430™	LM2936HV	100V <sub>IN</sub>
MSP430™	TPS780/ 2	500mA I <sub>o</sub>
MSP430™	TPS706	1μA I <sub>q</sub>
MSP430™	TPS7A100	1A LDO

## Powering FPGA/DSP (I<sub>OUT</sub> > 500mA)

I <sub>OUT</sub> (A)	Device	V <sub>DO</sub> (mV)
0.5	LP3912	95
0.8/ 1.5/ 3	TPS7187 (Dual)	95
1	LP2885x	85
1.5	TPS7A88 (Dual)	115
2	TPS742/ 3	130
3	TPS7A83	55
3	LP3851/ 3	125
4	TPS744	115
	TPS7A84	425
	TPS7A85	110
		150

## Low I<sub>Q</sub>

I <sub>OUT</sub> (A)	Device	I <sub>Q</sub> (μA)
0.15	TPS702/ 2	0.5
0.15	TPS706	1
0.08	TPS709	1
0.1	TPS7184	1
0.28	TPS7187	1
0.3	TPS7184	1
0.05	TPS7127	3.2
0.15	TPS716	7.9
	LM2936HV	12
	LM9076	15
		25

## Wide Input Voltage

I <sub>OUT</sub> (A)	Device	V <sub>IN</sub> (V) (max)
0.75	TL783	125
0.05	TPS7A40	100
0.05	LM2936HV	60
0.1	TPS7A16	60
0.15	TPS7A49	36
0.15	TPS709	30
0.1	LP2951-N	30
3/ 5	LM1084/ 5	29
0.08	TPS715A	24
0.2/ 1	TPS7A30/ 33 (-V <sub>OUT</sub> )	-36

## Small package

I <sub>OUT</sub> (A)	Device	Package (mm)
0.15/ 0.25	LP3907/ 7	0.65x0.65 WCGSP
0.3	TL1708	1.3x1 WCGSP
0.2	TPS720	1.4x1 WCGSP
0.2	TL1V07	1.5x1.5 DFN
0.35	LM371L-N	2x2 DFN
0.1/ 0.3	TPS710/ 1 (Dual)	2x2 DFN
0.2	TPS736/ 1 P3912	2x2 DFN
0.2	TPS743/ 7	2x2 DFN
0.2	TPS744	2x2 DFN

## Jump start your design process

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