



New Product Announcement

AP7340

AP7340 - 150mA High PSRR Low Noise LDO

The AP7340 is a low dropout regulator with high output voltage accuracy, low $R_{DS(ON)}$, high PSRR, low output noise and low quiescent current.

The AP7340 includes a voltage reference, error amplifier, current limit circuit and an enable input to turn it on and off. The AP7340 has fixed output voltage, 1.2v to 3.3v.

The AP7340 provides high PSRR (75dB @ 1kHz) without the need for an external bypass capacitor and is ideal for noise sensitive applications such as audio, video and RF sub-systems.

Its low power consumption combined with excellent line and load transient responses make the AP7340 ideally suited for low power handheld communication equipments.

The AP7340 is packaged in a X2-DFN1010-4 package and allows for small footprint and high density PCB layout.



The Diodes Advantage

- **Wide Input Voltage, 1.7V to 5.25V**
Offers lower operation down to 1.7V supporting operation over whole range of Li-ion battery cells.
- **High PSRR (75dB @ 1kHz) and low noise (60 μ Vrms @ 10Hz - 100kHz)**
Suitable for noise sensitive applications such as audio, video and RF sub-systems.
- **1.0% Output Accuracy @ room temp, 1.5% over -40 $^{\circ}$ C to 85 $^{\circ}$ C**
Maintains accuracy over all conditions
- **Miniaturized package, DFN1010-4 (1.0mmx1.0mmx0.39mm)**
The small package dimensions and low height meets small footprint and low profile requirements of latest portable equipment.
- **Low Quiescent Current at 35 μ A**
Offers power saving in low-power and battery operated products.

Circuit Functions

- Enable for shutdown with/without auto-discharge
- Foldback short circuit protection

Target Markets

- RF Supply
- Cameras
- Portable Video
- Portable Media Player
- Wireless Adaptor
- Wireless Communication

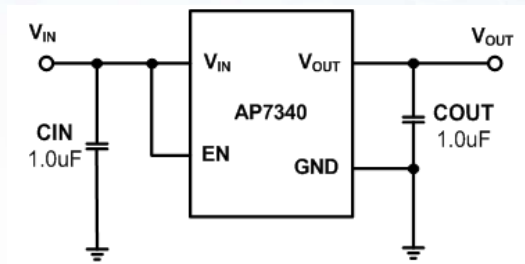


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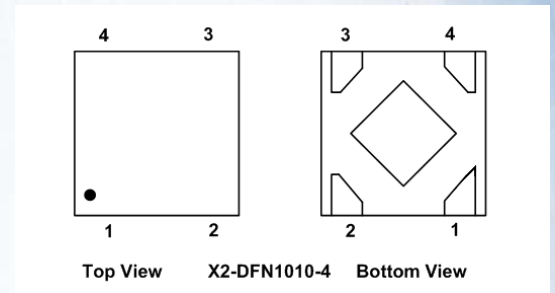
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Typical Application Circuit



Package



PIN1 – Vout, PIN2 – GND, PIN3 – EN, PIN4 – Vin

Part Number	VIN (V)	VOUT (V)	IOUT (mA)	VDROP (mV) @ Full Load	IQ (μA)	PSRR@1k Hz (dB)	Noise (μVrms)	Output Accuracy (%)	Enable	BYPASS Cap	Package
AP7340	1.7 to 5.25	1.2, 1.5, 1.8, 1.85, 2.5, 2.8, 2.85, 3.0, 3.1, 3.2, 3.3	150	210	36	75	60	1	H	NO	DFN1010-4
AP2121	2.0 to 6.0	1.2, 1.3, 1.5, 1.8, 2.5, 2.8, 3.0, 3.2, 3.3	200	250 (except 1.2V/1.3V/1.5V)	25	70	30	2	H	NO	SOT23 SOT25 CSP-4

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