



New Product Announcement

AP7347EQ

500mA, High-PSRR, Low-Noise, Automotive-Compliant LDO with Power Good and Adjustable Output Voltages

The AP7347EQ is a 500mA low dropout regulator (LDO) providing 1% tolerance, 75dB PSRR, and low output noise with a power good indicator.

The device has an adjustable output version, from 1V to 5V, as well as fifteen fixed output voltage variants.

The AP7347EQ has a power-good output to indicate the status of the output voltage. The EN input and PG output can be used with other regulators for power sequencing control in MCU applications.

The AP7347EQ is qualified to AEC-Q100 Grade 1 and supports ambient temperatures from -40°C to +125°C. It is available in two small-footprint, industry-standard, wettable-flank DFN packages: the more thermally robust W-DFN3030-8 package and the smaller W-DFN2020-6 package, which comes with two pin outs.

A standard compliance version, AP7347E, is available and is suitable for industrial and commercial applications.



The Diodes Advantage

The AP7347EQ enhances design flexibility, offering high-performance regulation in ADAS and infotainment.

- **High 75dB PSRR with Low 60 μ Vrms Noise (10Hz - 100kHz)**
Suitable for noise-sensitive applications such as automotive RF sub-systems
- **1.0% Output Accuracy from -40°C to +125°C**
Maintains accuracy over full temperature range
- **Fixed and Adjustable Output Versions from 1V to 5V**
Offers design flexibility for different MCU platforms
- **Power-Good Output with Open Drain**
Provides fault reporting and facilitates power sequencing
- **Industry-Standard DFN Packages with Wettable Flanks**
Support Automatic Optical Inspection PCB assembly

Applications

Automotive point-of-load (POL) regulation in:

- ADAS
- Automotive wireless communication
- Automotive RF supplies
- Infotainment power supplies

Automotive-compliant - AEC qualified, manufactured in IATF 16949 certified sites supporting PPAP documents.

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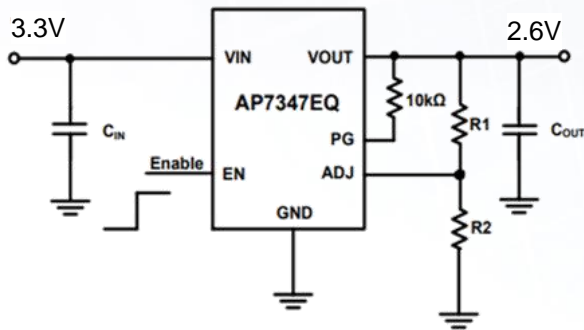
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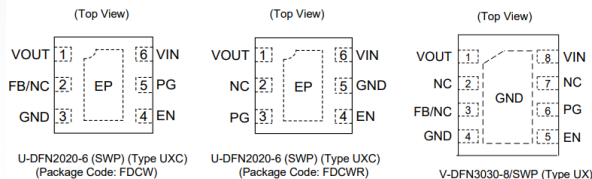
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Typical Application



Pin Assignments



Automotive-Compliant 5V CMOS LDO Product Portfolio

Part Number	V _{IN}	Adj V _{OUT}	Fixed V _{OUT}	I _{OUT}	V _{DROP} @ Full Load (3.3V)	I _Q	Output Accuracy	Output Discharge	Enable	Power Good	Packages
	V	V	V	mA	mV	μA	%				
AP7347EQ	1.7 to 5.5	Yes	1.0, 1.05, 1.1, 1.15, 1.2, 1.5, 1.7, 1.8, 2.2, 2.5, 2.8, 2.9, 3.0, 3.3, 5.0	500	320	75	1	Yes	Yes	Yes	U-DFN2020-6/SWP (Type UXC) V-DFN3030-8/SWP (Type UX)
AP7347DQ	1.7 to 5.5	No	1.0, 1.05, 1.1, 1.15, 1.2, 1.5, 1.7, 1.8, 2.2, 2.5, 2.8, 2.9, 3.3, 5.0	500	320	60	1	Yes	Yes	No	SOT25 W-DFN2020-6/SWP
AP7343Q	1.7 to 5.25	No	0.9, 1.0, 1.1, 1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3	300	310	35	1	No	Yes	No	SOT25 W-DFN2020-6/SWP
AP7343DQ								Yes			
AP7315Q	1.7 to 5.25	No	1.1, 1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3	150	290	35	1	No	Yes	No	SOT25
AP7315DQ								Yes			

Ordering Information

Orderable Part Number*	Compliance (Only Automotive Supports PPAP)	Package	Moisture Sensitivity	Packing	
				Quantity	Carrier
AP7347EQ-XXXFDCW-7R	Automotive	U-DFN2020-6/SWP (Type UXC)	MSL 1	3,000	7" Tape & Reel
AP7347EQ-XXXFDCWR-7R	Automotive	U-DFN2020-6/SWP (Type UXC)	MSL 1	3,000	7" Tape & Reel
AP7347EQ-XXXFGECW-13A	Automotive	V-DFN3030-8/SWP (Type UX)	MSL 1	3,000	13" Tape & Reel

* Where XXX stands for voltage options – see page 15 of the datasheet