



New Product Announcement

AP7315Q AP7343Q

Automotive-Compliant, High PSRR, Low-Noise, 150mA and 300mA LDO with Enable

The AP7315Q & AP7343Q are 150mA and 300mA low dropout regulators with high-output voltage accuracy, low $R_{DS(ON)}$, high PSRR, low-output noise, and low quiescent current.

The AP7315Q and AP7343Q are available with fixed-output voltage variants and an enable feature. Both are available with output discharge (AP7315DQ/43DQ) or non-discharge (AP7315Q/43Q) output support.

With low-power consumption, line and load transient responses, the AP7315Q and AP7343Q are both well suited for noise-sensitive automotive applications.

The AP7315Q and AP7343Q are automotive-complaint and PPAP capable, qualified to AEC-Q100 Grade 1 in SOT25, and manufactured in IATF16949:2016 certified facilities.



DIODES Advantage

The AP7315Q and AP7343Q provide reliable and high-performance regulation for automotive applications.

- **High PSRR (75dB @ 1kHz) and Low Noise (60 μ Vrms @ 10Hz - 100kHz)**
Suitable for noise-sensitive applications, such as automotive RF sub-systems
- **1.0% Output Accuracy at Room Temperature, 1.5% over -40°C to +125°C**
Maintains accuracy over all conditions
- **Low Quiescent Current at 35 μ A**
Offers power saving in low-power and battery-operated products
- **Automotive-Compliant with AEC-Q100 Grade 1**
Operates across -40°C to +125°C ambient temperature and supports PPAP documentation
- **With or Without Output Discharge and Wide Variety of Output Voltages**
Provides 150mA and 300mA LDO for I/O and numerous core voltages with output discharge to ensure systems start up in known state

Application

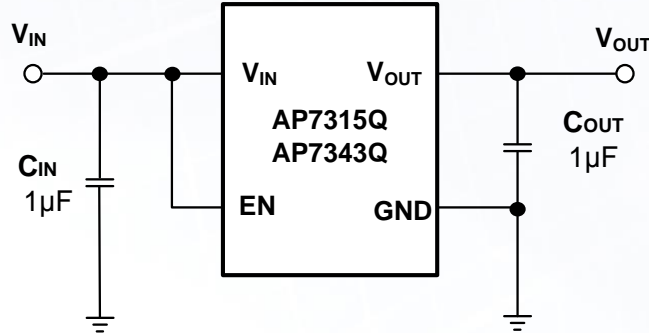
- Automotive POL in ADAS
- Automotive Wireless Communication
- Automotive RF Supply
- Infotainment Power Supplies



New Product Announcement

AP7315Q AP7343Q

Typical Application Circuit



Product Portfolio

Part Number	V _{IN} (V)	Fixed V _{OUT} (V)	I _{OUT} (mA)	V _{DROP} @ Full Load (mV)	I _Q (µA)	Output Accuracy (%)	Output Discharge	Enable	Package
AP7315Q-XXW5-7	1.7 to 5.25	1.1V, 1.2V, 1.5V, 1.8V, 2.5V, 2.7V, 2.8V, 2.9V, 3.0V, 3.3V	150	220	35	1	No	Yes	SOT25
AP7315DQ-XXW5-7							Yes		
AP7343Q-XXW5-7	1.7 to 5.25	0.9V, 1.0V, 1.1V, 1.2V, 1.5V, 1.8V, 2.5V, 2.7V, 2.8V, 2.9V, 3.0V, 3.3V	300	300	35	1	No	Yes	SOT25
AP7343DQ-XXW5-7							Yes		

To find out more information:

<https://www.diodes.com/part/AP7315Q>

<https://www.diodes.com/part/AP7343Q>

Ordering Information

