

Featured Products



Utilizes a new control loop for ultra-stable control

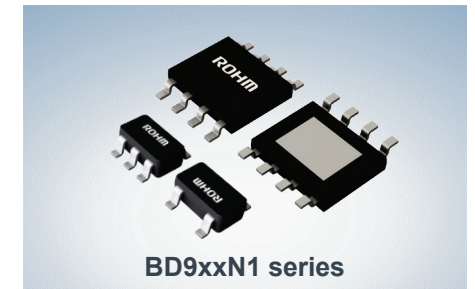
Automotive-Grade 150mA Nano Cap™ LDO Regulator ICs

BD9xxN1 series

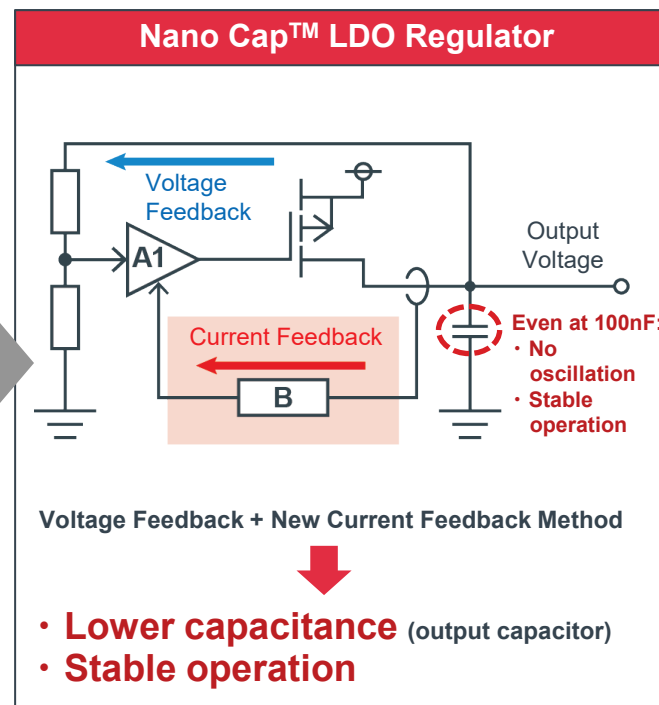
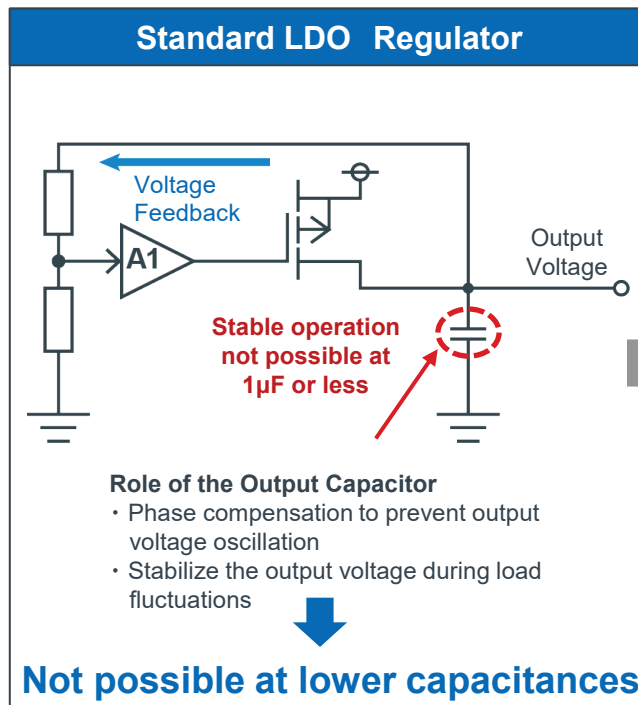
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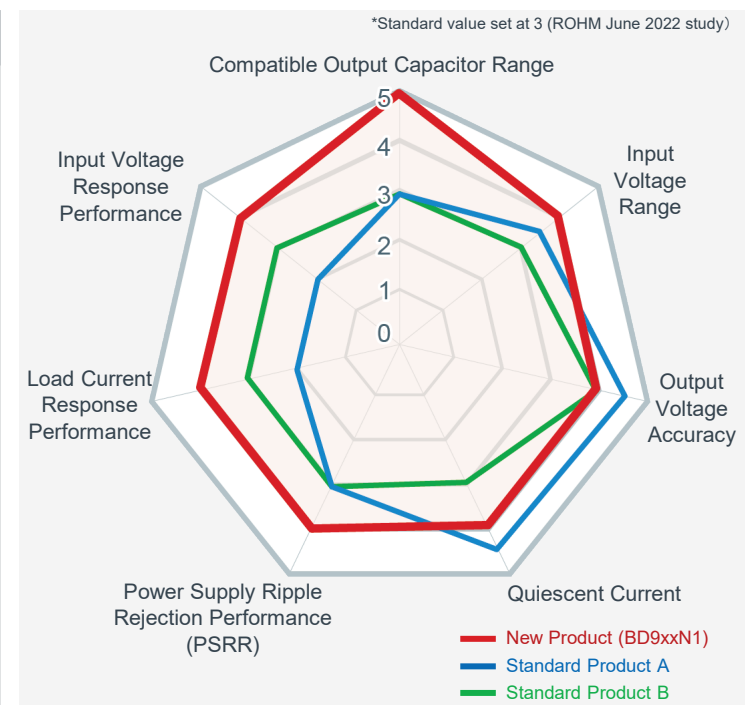
- **New Nano Cap™ circuit solves the output capacitor trade-off relationship**
Stable operation without oscillation even at a 100nF output capacitance + sufficient response performance during application operation
- **Stable output capacitance over a wide output capacitance range**
Maintains an output voltage fluctuation of 100mV or less even during load variations
(at 100nF output capacitance, load current fluctuation 1mA $\leftrightarrow$ 50mA/ μ s)
- **Contributes to a smaller mounting area**
Compatible with low capacitance ceramic capacitors



Nano Cap™ Ultra-Stable Control Technology

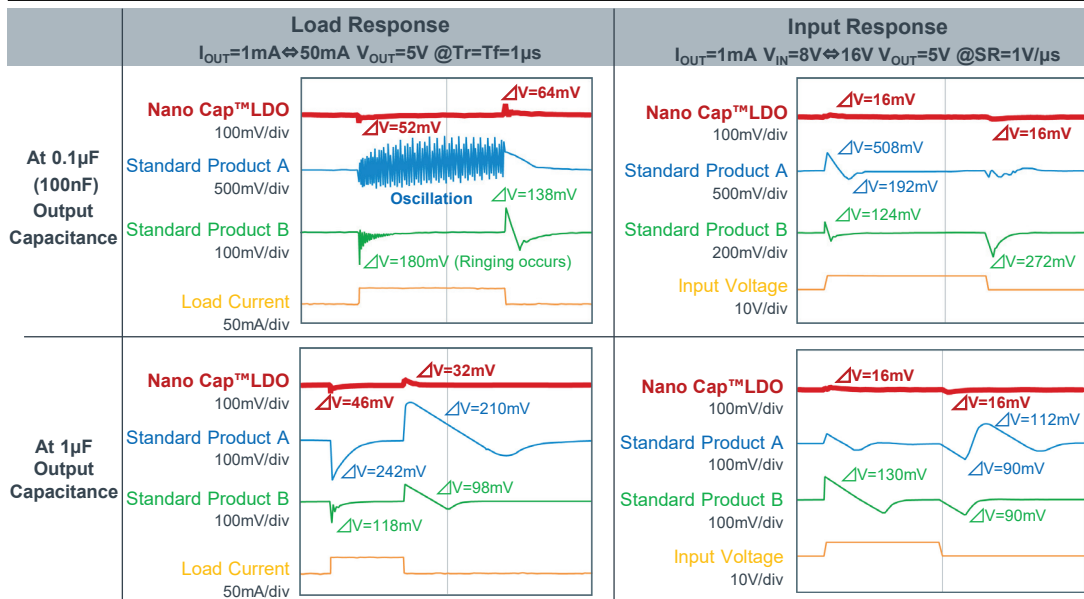


Performance Comparison

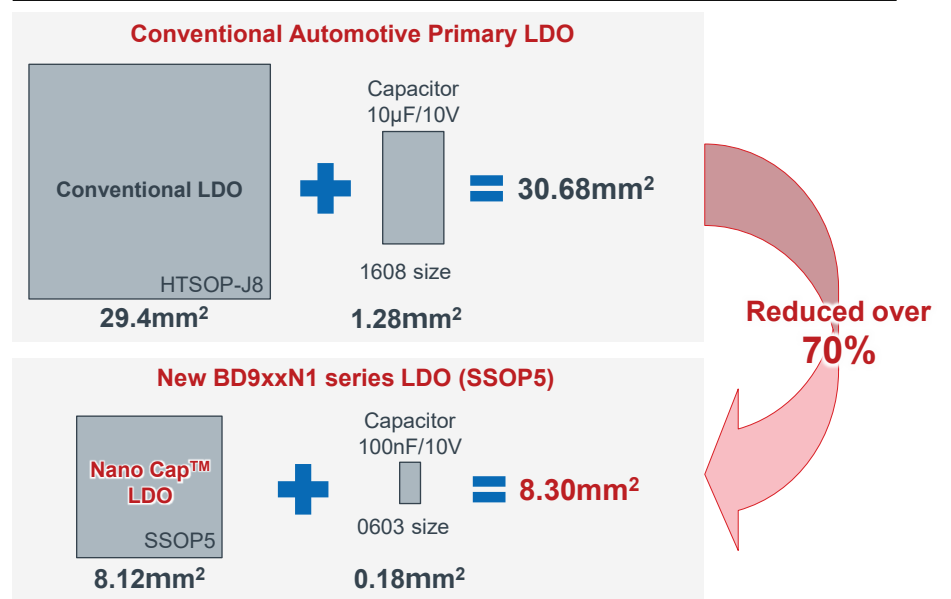


Higher Performance with Nano Cap™ Technology

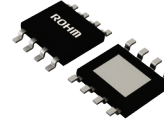
* ROHM June 2022 study



SSOP Package + Nano Cap™ Technology Reduce size



Automotive 45V 150mA Nano Cap™ LDO Regulator Lineup

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Output Current (mA)	Nano Cap™ ² Technology	Output Capacitance (μF)	Circuit Current (μA)	Shutdown Switch	Operating Temperature T _J (°C)	ComfySIL™ Functional Safety Category	Package
New BD900N1G-C*1 Web Page	3.0 to 42.0	Adjustable (1.0 to 18.0)	±2	150	✓	0.05 to 470	28	—	-40 to +150	FS supportive*3	 SSOP5 (2.9mm×2.8mm×1.25mm)
New BD933N1G-C Web Page		3.3									
New BD950N1G-C*1 Web Page		5.0									
New BD900N1WG-C Web Page		Adjustable (1.0 to 18.0)						✓			
New BD933N1WG-C*1 Web Page		3.3									
New BD950N1WG-C Web Page		5.0									
☆BD900N1EFJ-C		Adjustable (1.0 to 18.0)	±2	150	✓	0.05 to 470	28	—	-40 to +150	FS supportive*3	 HTSOP-J8 (4.9mm×6.0mm×1.0mm)
☆BD933N1EFJ-C		3.3									
☆BD950N1EFJ-C		5.0									
☆BD900N1WEFJ-C		Adjustable (1.0 to 18.0)						✓			
☆BD933N1WEFJ-C		3.3									
☆BD950N1WEFJ-C		5.0									

*Nano Cap™ and ComfySIL™ are trademarks or registered trademarks of ROHM Co., Ltd. ☆Under Development *1 Online sample target models *2 Products equipped with Nano Cap™ technology *3 FS supportive: A product that has been developed for automotive use and is capable of supporting safety analysis with regard to the functional safety.

The information contained in this document is current as of June 1, 2022.



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