

# 高速応答技術でセラミックコンデンサ数削減に貢献!

High-speed responsiveness technology contributes to a reduction in ceramic capacitors!

Under  
Development

ROHM  
SEMICONDUCTOR

# 車載向けセカンダリ降圧DC/DCコンバータ

For Automotive Secondary Buck DC/DC Converter

## BD9S402MUF-C

### Features

- 高速負荷応答技術により出力コンデンサ削減  
High-speed responsiveness technology allows a reduction in output capacitors
- ローム独自のNano Pulse Control™技術により低電圧0.6Vが出力可能  
Low voltage of 0.6V can be outputted, owing to ROHM's proprietary Nano Pulse Control™ technology
- 高精度基準電圧回路内蔵(±1%, Ta=-40°C~+125°C)  
High-precision standard voltage circuit built-in (±1%, Ta=-40°C to +125°C)

- AEC-Q100準拠  
AEC-Q100 qualified

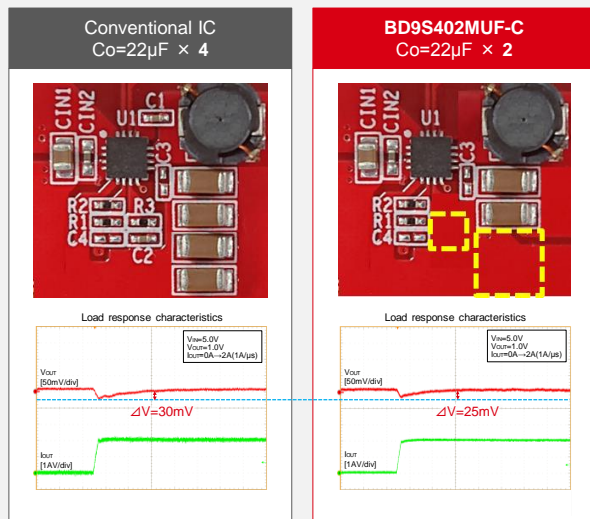
### Applications

- 車載機器  
Automotive systems

- その他電子機器  
Other electronic devices

### 出力コンデンサを1/2に削減

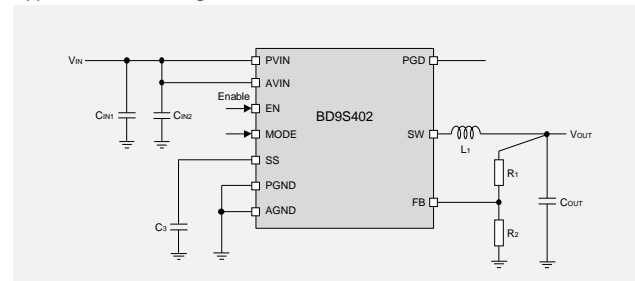
Output capacitors reduced by 1/2



出力コンデンサを1/2に削減しても同等の負荷応答特性を実現!  
Output capacitors reduced by 1/2, with equivalent load response characteristics!

### アプリケーション回路

Application Circuit Diagram



### ラインアップ

Lineup

Series	BD9SxxxNUX-C	BD9Sx00MUF-C	BD9Sx02MUF-C	
$V_{IN}$ (V)	2.7 to 5.5	2.7 to 5.5	2.7 to 5.5	
Freq (MHz)	2.2	2.2	2.2	
$V_{OUT}$ (V)	0.8 to $V_{IN}$	0.8 to $V_{IN} \times 0.8$	0.6 to $V_{IN} \times 0.8$	
Package	VSON008X2020	VQFN16FV3030	VQFN16FV3030	
Output Current	0.6A	BD9S000NUX-C BD9S012NUX-C (1.1V Fix)	-	
	1A	BD9S100NUX-C BD9S110NUX-C (1.2V Fix) BD9S111NUX-C (1.8V Fix)	-	
	2A	BD9S201NUX-C	BD9S200MUF-C	-
	3A	-	BD9S300MUF-C	BD9S302MUF-C*
	4A	-	BD9S400MUF-C	BD9S402MUF-C*

\* High-speed responsiveness technology