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

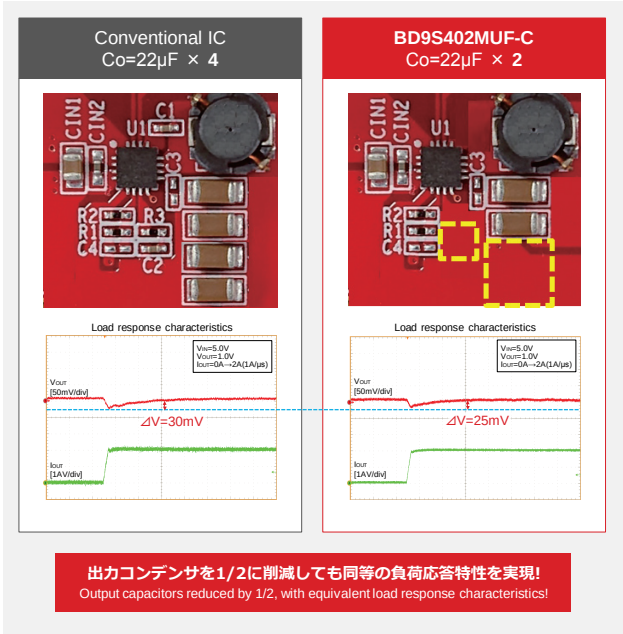
- **高速負荷応答技術により出力コンデンサ削減**
  High-speed responsiveness technology allows a reduction in output capacitors
- **ローム独自のNano Pulse Control™技術により低電圧0.6Vが出力可能**
  Low voltage of 0.6V can be outputted, owing to ROHM's proprietary Nano Pulse Control™ technology
- **高精度基準電圧回路内蔵(±1%, Ta=-40℃~+125℃)**
  High-precision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

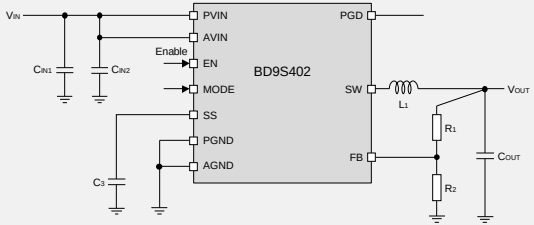
Output capacitors reduced by 1/2



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
VIN (V)		2.7 to 5.5	2.7 to 5.5	2.7 to 5.5
Freq (MHz)		2.2	2.2	2.2
VOUT (V)		0.8 to VIN	0.8 to VIN x 0.8	0.6 to VIN x 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