Products

Home

Design Resources

Design Support

& Documents

Application

Collateral Brochures

Reports

Conformance

Data Sheets

Design Notes

Development

Design &

Tools

Errata

Board Documents

Tools Sample Kits and

Printed Documents

Reference

Reference

Simulation

Designs

Manuals

Models

Videos

Software

▶ Community

GreenPoint® Design Tool

White Papers

▶ Technical Support

Tutorials

Evaluation

Evaluation /

Development Tools Package Drawings Product Recommendation

Notes

Design Support Applications Quality

Home > Support > Design Support > Design Resources & Documents > Evaluation/Development Tools NV705223R1DBGEVB: Daughterboard SPI Stepper Driver with Voltage

Viewed Products

Select Prod ▼ Go

Previously

Clear List

Evaluation/Development Tool Description

Regulator (NQFP) Evaluation Board

The NV705223R1DBGEVB is a form factor Reference Design for driving bipolar stepper motors. The reference design can be interfaced via I/O pins and the SPI bus to an external microcontroller. In conjunction with the NCV7052xGEVK evaluation kit it forms a complete solution turning high level commands from a CAN node in well defined motions. The design incorporates the lowest bill of materials, small board size and perfect matched thermal resistance allowing to drive 800 mA at elevated ambient temperature or even 1.6A under certain conditions.

Note: This board must be used with the NCV7052XGEVK Automotive Stepper Motor Driver Kit.



MyON

Design Support

- » Technical
- Documentation. ** Design Resources & Documents
- » Technical Support
- >> Sales Support

Features and Applications

Features

- · Low bill of materials
- Small form factor (40mm x 32mm (20mm x 15mm active area))
- · Plug and Play in combination with NCV7052xGEVK
- Microstepping (full step, ½(compensated and uncompensated), 1/4, 1/8, 1/16, 1/32)
- Nominal current of 800mA (1.6A under certain conditions)
- · Fully integrated current sensing
- 6V-30V supply voltage
- On chip 5V/50mA regulator
- (Watchdog) reset output
- Compatible with 5V and 3.3V microcontroller
- Next step and motion direction input
- · Speed and load-angle output
- · Diagnostics information
- Thermal warning and thermal shutdown
- Programmable PWM frequency and slope control

Applications

- · Flap control in HVAC systems
- Headlamp Positioning systems

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NV705223R1DBGEVB	Active	Pb-free	Daughterboard SPI Stepper Driver with Voltage Regulator (NQFP) Evaluation Board	NCV70522MN003G, NCV70522MN003R2G	Buy Now Contact Local Sales Office Inventory

Technical Doc	Technical Documents						
Туре	Document Title	Document ID/Size	Rev				
Eval Board: BOM	NV705223R1DBGEVB Bill Of Materials ROHS Compliant	NV705223R1DBGEVB_BOM_ROHS.PDF - 142.0 KB	0				
Eval Board: Gerber	NV705223R1DBGEVB Gerber Layout Files (Zip Format)	NV705223R1DBGEVB_GERBER.ZIP - 64.0 KB	0				
Eval Board: Schematic	NV705223R1DBGEVB Schematic	NV705223R1DBGEVB_SCHEMATIC.PDF - 170.0 KB	0				

Privacy Policy | Terms of Use | Site Map | Careers | Contact Us | Terms and Conditions | Mobile Portal | Mobile App





