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EVAL-M1-05F804

Overview



Description:

This evaluation board is a complete power stage, powerd by

IRSM005-800MH (/cms/en/product/power/intelligent-power-modules-ipm/irsm005-800mh/). The board is purposed to drive 3-phase motors in low voltage domain. It is equipped with **MADK™ (/cms/en/product/promopages/madk/)** M1 20 pin interface connctor. Therefor, it can be used with **Eval-M1-1302 (/cms/en/product/evaluation-boards/eval-m1-1302/)** or

Eval-M1-099M-C (/cms/en/product/evaluation-boards/eval-m1-099m-c/) control boards. In combination with these boards, it is a complete motor control system.

Summary of Features:

- Power stage to drive 3-phase motor
- 40V blocking voltage
- Up to 80A initial current
- Testpads with hooks to attach standart oscilloscope probes
- Standard MADK™ (/cms/en/product/promopages/madk/) M1 interface connector

Benefits:

- Evaluate IRSM005-800MH module for your application
- Get your motor running within one hour in combination with Eval-M1-1302 or Eval-M1-099M
- Start to learn more about motor control in low voltage domain

Target Applications:









(/cms/productpage- (/cms/productpage- (/cms/productpage- (/cms/productpage- application/battery- application/power- application/small- application/multicopters) powered) tools) kitchen-appliances)



This Evaluation Boards can be combined with our **EVAL-M1-099M-C (/cms/en/product/evaluation-boards/eval-m1-099m-c/)** control board. Including a debug interface card and powered by an

IRMCK099M (/cms/en/product/power/motor-control-ics/digital-motor-controller-imotion/irmck099m/) Motor Control IC. In addition a MCE Designer GUI for parametrization and tunig is offered. It is designed for motor drive applications such as fans, pumps, multicopter or aircon.



Discover more about our **EVAL-M1-1302** (/cms/en/product/evaluation-boards/eval-m1-1302/) motor control board powered by **XMC 1302** (/cms/en/product/channel.html?channel=db3a30433c1a8752013c1aa35a6a0029). It includes an isolated J-Link interface by Segger. The Hardware is prepared to use HALL- or latest innovation of 3D Magnetic Sensor. A complete development suite consisting of DAVE and μ C-Probe is provided.



Parametrics

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| Parametrics | EVAL-M1-05F804 |
|------------------------|---|
| Applications | Power Tools Home Appliances ; Battery |
| Configuration | 3x half-bridges for 3-phase motor voltage and current measurement MADK™ M1 connector |
| Description | Evaluation board powered by IRSM005-800MH, equipped with MADK™ M1 20 pin interface connector used with Eval-M1-1302 or Eval-M1-099M control boards. |
| Family | Motor Driver Microcontroller |
| Input Type | DC |
| Product Description | This evaluation board is a complete power stage, powerd by IRSM005-800MH. The board is purposed to drive 3-phase motors in low voltage domain. It is equipped with MADK™ M1 20 pin interface connector. |
| Product Name | Eval-M1-05F804 |
| Target Application | Automation Consumer; Motor Control & Drives |
| Topology | 3-Phase Motor |
| Туре | Evaluation Board |

Documents



+ Expand all

♣ Getting Started



iMOTION $^{\text{TM}}$ MADK Sensorless FOC with XMC $^{\text{TM}}$ (/dgdl/Infineon-iMOTION MADK Sensorless FOC with XMC-GS-v01_00-EN.pdf? fileId=5546d46255dd933d0155edee06717683)

> EN (/dgdl/Infineon-iMOTION MADK Sensorless FOC with XMC-GS-v01_00-EN.pdf?file1d=5546d46255dd933d0155edee06717683) 01_00 | 2016-07-15 | pdf | 3.1 MB

Application Notes



Eval-M1-05F804 - iMOTION™ Modular Application Design Kit (/dgdl/Infineon-AN2017-10_Eval-M1-05F804-AN-v01_00-EN.pdf? fileId=5546d4625cc9456a015d07dbf7ce7f05)

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Order



| Sales Product Name | EVAL-M1-05F804 |
|--------------------|-------------------|
| OPN | EVALM105F804TOBO1 |

| Product Status | active and preferred |
|----------------------|----------------------|
| Package name | |
| Order online | |
| Completely lead free | |
| Halogen free | |
| RoHS compliant | yes |
| Packing Size | 1 |
| Packing Type | BLISTER TRAY |
| Moisture Level | |
| Moisture Packing | NON DRY |

Videos



Introduction: iMOTION ™ MADK platform

This video offers an overview of the current available iMOTION™ MADK board Solutions.

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iMOTION [™] - How to measure motor parameters

This videos demonstrates how to set up the system for XMC1302 and IRMCK099 of the iMOTION™ Modular Application Design Kit Platform. It demonstrates how to determine Motor parameters by measurement.

Support







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Technical Assistance Center (TAC)

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| Other Distributor / Reseller | |
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| | |
| Product Name* | |
| EVAL-M1-05F804 | |
| | |
| Estimated annual production volume (pieces) per year* | |
| [please select] | |
| Please post your technical question as detailed as possible* | |
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