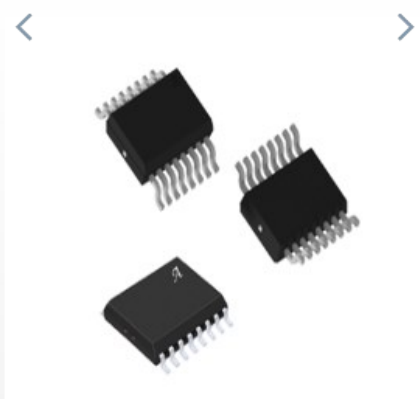


ACS37002: 400 kHz, High Accuracy Current Sensor with Pin-Selectable Gains

The 400 kHz ACS37002 family of sensors is cool under heavy workloads, with a compact, low power loss package that keeps temperatures down and can extend the life of a power system. These current sensors hit the right balance of high speed, high accuracy, and stability over temperature, making switched-mode power designs greener and more efficient—leading technology and the world to a more sustainable future.

[ACS37002 LA/MA DATASHEET](#)[ORDER NOW](#)

MC Package Datasheet Coming Soon

[Description & Top Features](#) | [Availability](#) | [Packaging](#) | [Design Support Tools](#)

Description

The ACS37002 is a 400kHz fully integrated Hall-Effect current sensor with very high accuracy, making it ideal for use in control loops of the most demanding power conversion applications. Current flows through the internal conductor coupling the magnetic field generated to the Hall sensor IC. As a result of no

Top Features

- Wide Operating Bandwidth 400kHz

- 1% Sensitivity error from -40 to 125°C (KMA version)
- Pin-selectable Gain Options (4)
- Fast over-current detection 1.5µs max response time

+ EXPAND

Part Number Specifications and Availability

Part Number	Package Type	Temperature	RoHS Compliant	Part Composition / RoHS Data	Comments	Sam
ASEK37002LMA-BB-3B	DEMO BOARD	-20°C to 85°C	No	--	New	Contact local sa
ASEK37002LMA-BB-5B	DEMO BOARD	-20°C to 85°C	No	--	New	Contact local sa
ACS37002KMABTR-050B3	16-lead SOIC	-40°C to 125°C	Yes	View Data	New	Contact local sa
ACS37002KMABTR-050B5	16-lead SOIC	-40°C to 125°C	Yes	View Data	New	Contact local sa
ACS37002LLAATR-015B3	16-lead SOIC	-40°C to 150°C	Yes	View Data	Contact factory	Contact local sa
ACS37002LLAATR-015B5	16-lead SOIC	-40°C to 150°C	Yes	View Data	Contact factory	Contact local sa
ACS37002LLAATR-025B5	16-lead SOIC	-40°C to 150°C	Yes	View Data	Contact factory	Contact local sa
ACS37002LLAATR-025U3	16-lead SOIC	-40°C to 150°C	Yes	View Data	Contact factory	Contact local sa
ACS37002LMABTR-050B3	16-lead SOIC	-40°C to 150°C	Yes	View Data	New	Contact local sa
ACS37002LMABTR-050B5	16-lead SOIC	-40°C to 150°C	Yes	View Data	New	Contact local sa
ACS37002LMABTR-050U3	16-lead SOIC	-40°C to 150°C	Yes	View Data	New	Contact local sa
ACS37002LMABTR-050U5	16-lead SOIC	-40°C to 150°C	Yes	View Data	New	Contact local sa
ACS37002LMABTR-066B3	16-lead SOIC	-40°C to 150°C	Yes	View Data	New	Contact local sa
ACS37002LMABTR-066B5	16-lead SOIC	-40°C to 150°C	--	View Data	New	Contact local sa
ACS37002LMABTR-066U5	16-lead SOIC	-40°C to 150°C	--	View Data	New	Contact local sa

Packaging

- 16-Pin SOICW MC Package
- 16-Pin SOICW MA Package
- 16-Pin SOICW LA Package



Design Support Tools

[ASEK37002 Eval Board User Manual](#)

Models

[ACSLTspiceLibrary](#)

CB Certificates

[Certificate-CB-US-32210-M3-UL \[MA\]](#)

Certificate of Compliance

[20190906-E316429 Certificate of Compliance](#)



PRODUCTS

- Sense
- Regulate
- Drive

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- Automotive
- Consumer
- Computer

DESIGN SUPPORT

- Evaluation Kits and Demo Boards
- Packaging
- Quality and Environment



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