SENSOR IC PACKAGE PORTFOLIO

SENSOR INTEGRATED CIRCUITS

The development of Allegro sensor ICs not only includes leading edge innovations in the area of integrated circuit design but also includes application specific innovation in the area of custom package design.

A small sampling of Allegro's custom packaging developments include:

- Proprietary, integrated magnet packages that simplify magnetic system design in automotive speed sensing applications.
- Custom SOICW packaging that offers ultra-low series resistance, higher power density, and improved isolation ratings in a tiny footprint. See the MC package.
- Revolutionary, integrated current sensing packages with high bandwidth magnetic design features. See the SOIC, QSOP, EX, and CA/CB packages with integrated, low resistance current conductors and the 1 mm thick KT package.
- Small footprint, low profile packages for communications and consumer products.

CURRENT SENSING PACKAGES WITH INTEGRATED CONDUCTORS

EX (QFN)
Terminals: 12
Size: 3 x 3 mm body width

CB
Terminals: 5

LC (SOIC-8)
Terminals: 8

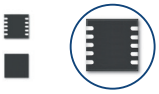
LA / MA / MC (SOIC-16)
Terminals: 16

LR (PSOF)
Terminals: 7

LOW PROFILE, SMALLEST FOOTPRINT PACKAGES

EH (DFN)
Terminals: 6
Size: 2 x 3 mm body width

EJ (TDFN)
Terminals: 3-16
Size: 3 x 3 mm body width

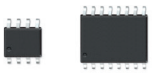


SURFACE MOUNT PACKAGES

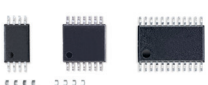
LH (SOT23W)
Terminals: 3, 5

LC (SOIC-8)
Terminals: 8

L/OL (SOIC-8 and SOIC-16)
Terminals: 8, 16

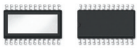


LE (TSSOP)
Terminals: 8, 14, 24



LJ (SOIC with exposed pad)
Terminals: 8-10
Size: 3.9 mm body width

LP (TSSOP with exposed pad)
Terminals: 14-28
Size: 4.4 mm body width



SINGLE IN-LINE PACKAGES

UA (TO-92)
Terminals: 3

K
Terminals: 4

KH
Terminals: 3

KT
Terminals: 4

KN
Terminals: 4

UB
Terminals: 2

UC
Terminals: 3

INTEGRATED MAGNET PACKAGES

SE
Terminals: 4

SG
Terminals: 4

SH
Terminals: 4

SL
Terminals: 3

SM
Terminals: 3

SN
Terminals: 2

SP
Terminals: 3

Please Note: Package sizes are photographed to show relative scale.

INNOVATION WITH PURPOSE
ALLEGRO microsystems