

Resolver-to-Digital Converters

Manufacturers

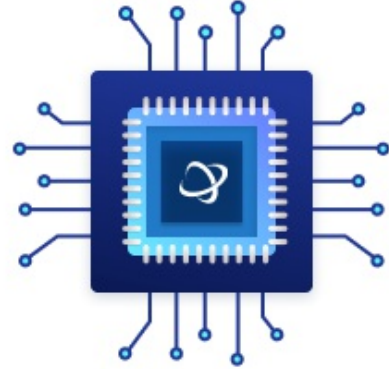
[Renesas Technology Corp](#)

Package/Case

Product Type

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for RAA3064002GFP or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Features

Resolver drive unit

Input square wave: 5/10/20kHz, 2.5Vp-p (Max.)

Excitation signal output AC voltage: 2.5Vp-p (Max.) Alternating current: 35mA_{p-p} (Max.)

Over-temperature detection circuit on-chip

Converter part

Differential amplifier circuit Variable gain: 2, 4, 8, 16.5X

Signal conversion circuit Angle error correction function, internal circuit error correction function

Disconnection detection circuit Detect disconnection from the signal amplitude

Amplifier circuit unit

Differential amplifier circuit 2ch (differential input support), variable gain: 10, 25X, for motor control current detection

Control

Communication function SPI interface (Max. 1MHz)

Operating frequency 4 MHz

Conversion error: ±0.2 degrees

Supply voltage: = VDD

Supply current: Maximum operating current: 20 mA (Typ.) Power save time: 420 μA (Typ.)

Operating ambient temperature: -40 °C to +105 °C

Package: 48-pin plastic LQFP (7mm x 7mm, 0.5mm pitch)

Supported resolvers

VR type 4-phase resolver

Voltage detection method

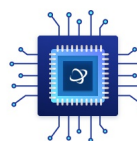
Current detection method

Related Products



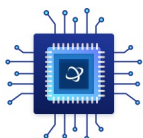
[ISL69222IRAZ-T](#)

Renesas Technology Corp



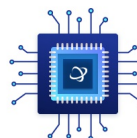
[RAA305330GBG#HC1](#)

Renesas Technology Corp



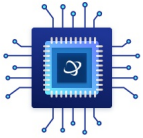
[RAJ240045A20DNP#HC0](#)

Renesas Technology Corp



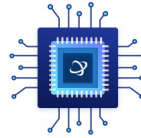
[ISL80112IRAJZ-T](#)

Renesas Technology Corp



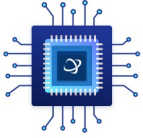
[RAJ240080A20DFP#HC0](#)

Renesas Technology Corp



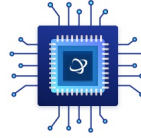
[ISL69259IRAZ-T](#)

Renesas Technology Corp



[RAJ240267B20DNP#HC1](#)

Renesas Technology Corp



[ISL69137IRAZ-T](#)

Renesas Technology Corp