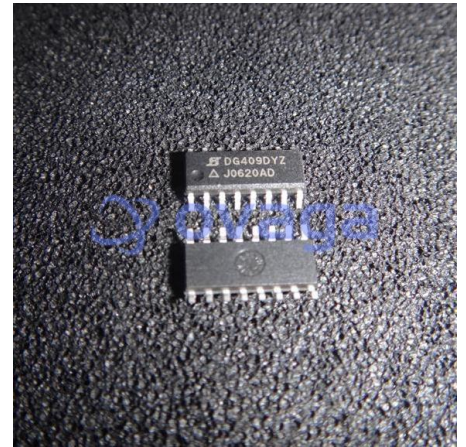


Single 8-Channel/Differential 4-Channel, CMOS Analog Multiplexers, Multiplexer Switch ICs
4:1

| | |
|---------------|---|
| Manufacturers | Renesas Technology Corp |
| Package/Case | SOIC-16 |
| Product Type | Interface ICs |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for DG409DYZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Maxim's redesigned DG408 and DG409 CMOS analog multiplexers now feature guaranteed matching between channels (8Ω max) and flatness over the specified signal range (9Ω max). These low on-resistance muxes (100Ω max) conduct equally well in either direction and feature guaranteed low charge injection ($15pC$ max). In addition, these new muxes offer low input off-leakage current over temperature, less than $5nA$ at $+85^{\circ}C$. The DG408 is a 1-of-8 multiplexer/demultiplexer and the DG409 is a dual 4-channel multiplexer/demultiplexer. Both muxes operate with a $+5V$ to $+30V$ single supply and with $\pm 5V$ to $\pm 20V$ dual supplies. ESD protection is guaranteed to be greater than $2000V$ per Method 3015.7 of MIL-STD-883. These improved muxes are pin-compatible plug-in upgrades for the industry standard DG408 and DG409.

Features

ON Resistance (Max, 25°C) 100Ω

Low Power Consumption (P_D) <11mW

Fast Switching Action

t_{TRANS} <250ns

$t_{ON/OFF(EN)}$ <150ns

Low Charge Injection

Upgrade from DG508A/DG509A

TTL, CMOS Compatible

Single or Split Supply Operation

Pb-Free Plus Anneal Available (RoHS Compliant)

Application

Audio-Signal Routing

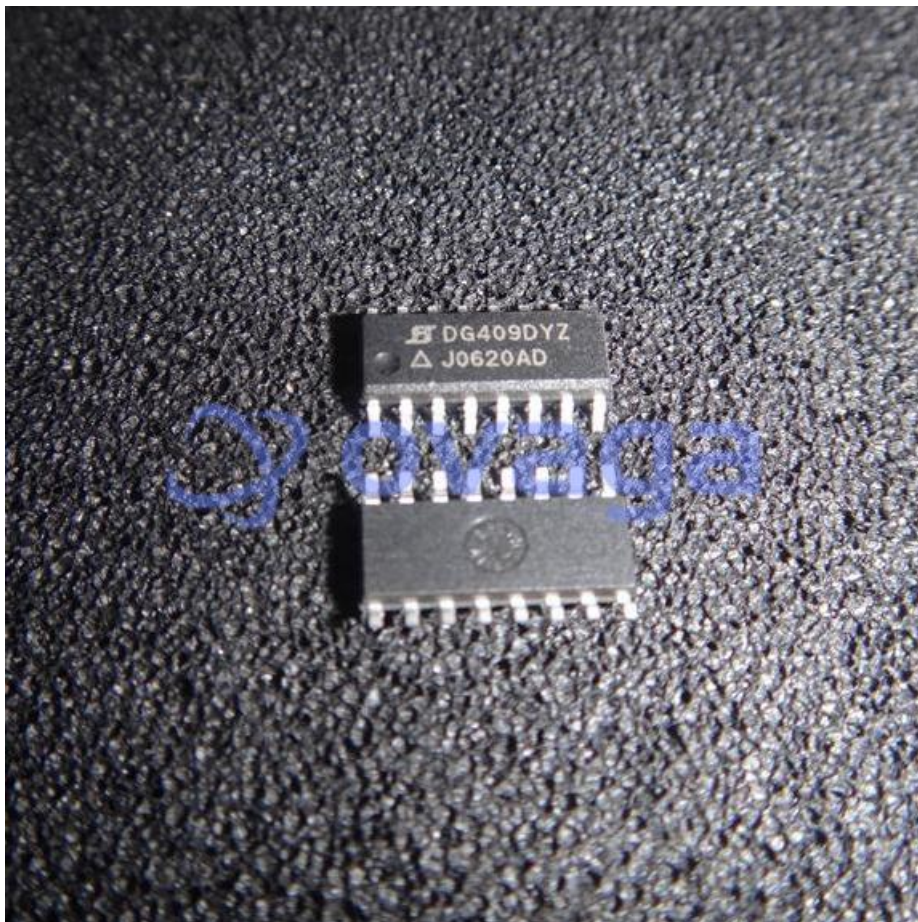
Communication Systems

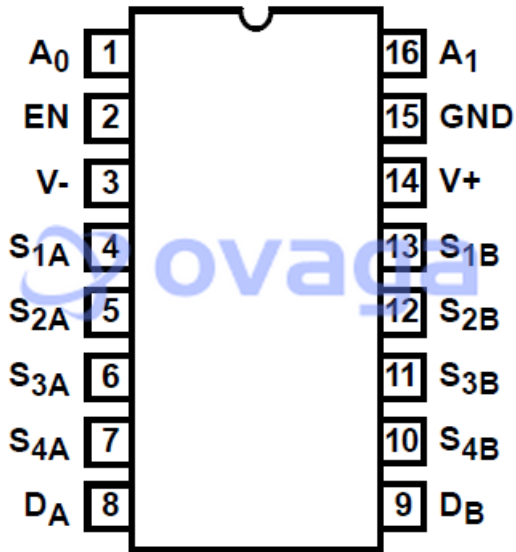
Data Acquisition

Guidance and Control Systems

Sample-and-Hold Circuits

Test Equipment





Related Products



[DG408DJZ](#)

Renesas Technology Corp
DIP-16



[DG406DYZ](#)

Renesas Technology Corp
SOP-28



[DG408DVZ-T](#)

Renesas Technology Corp
TSSOP-16



[DG445DYZ](#)

Renesas Technology Corp
SOIC-16



[DG413DYZ-T](#)

Renesas Technology Corp
SOIC-16



[DG411DYZ](#)

Renesas Technology Corp
SOIC-16



[DG412DYZ](#)

Renesas Technology Corp
SOIC-16



[DG407DYZ](#)

Renesas Technology Corp
SOIC-28