

Single 16 and 8/Differential 8-Channel and 4-Channel CMOS Analog Multiplexers;  
Temperature Range: -55°C to 125°C; Package: 16-CerDIP

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	CDIP16
Product Type	Integrated Circuits (ICs)
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for JM38510/19007BEA or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The JM38510/19007BEA is the JAN version of the HI1-0508. The HI-506/HI-507 and HI-508/HI-509 monolithic CMOS multiplexers each include an array of sixteen and eight analog switches respectively, a digital decoder circuit for channel selection, voltage reference for logic thresholds, and an enable input for device selection when several multiplexers are present. The Dielectric Isolation (DI) process used in fabrication of these devices eliminates the problem of latchup. DI also offers much lower substrate leakage and parasitic capacitance than conventional junction isolated CMOS (see Application Note AN520). The switching threshold for each digital input is established by an internal +5V reference, providing a guaranteed minimum 2.4V for logic "1" and maximum 0.8V for logic "0". This allows direct interface without pullup resistors to signals from most logic families: CMOS, TTL, DTL and some PMOS. For protection against transient overvoltage, the digital inputs include a series 200Ω resistor and diode clamp to each supply. The HI-506 is a single 16-channel, the HI-507 is an 8-channel differential, the HI-508 is a single 8-channel and the HI-509 is a 4-channel differential multiplexer. If input overvoltages are present, the HI-546/HI-547/HI-548/ HI-549 multiplexers are recommended.

## Features

Pb-Free Available (RoHS Compliant) (See Ordering Info)

Low ON Resistance 180Ω

Wide Analog Signal Range ±15V

TTL/CMOS Compatible

Access Time 250ns

Maximum Power Supply 44V

Break-Before-Make Switching

No Latch-Up

Replaces DG506A/DG506AA and DG507A/DG507AA

Replaces DG508A/DG508AA and DG509A/DG509AA

Pb-Free Available (RoHS Compliant)



## Related Products



### [JM38510/19008BEA](#)

Renesas Technology Corp  
CDIP16



### [JM38510/19006BEA](#)

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### [JM38510/19004BXA](#)

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### [JM38510/19002BXA](#)

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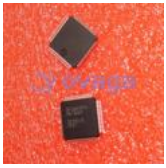
### [R1LV0408DSP-5SI](#)

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