

# **DG212BDQ-E3 Information**



For Reference Only

**Part Number** DG212BDQ-E3 **Manufacturer** Vishay Siliconix

Category Integrated Circuits (ICs)

Interface - Analog Switches, Multiplexers,

**Demultiplexers** 

**Description** IC SWITCH QUAD SPST 16TSSOP **Package** 16-TSSOP (0.173", 4.40mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









# **DG212BDQ-E3 Specifications**

Manufacturer Part Number  Manufacturer  Vishay Siliconix  Integrated Circuits (ICs)  Interface - Analog Switches, Multiplexers, Demultiplexers  Package  16-TSSOP (0.173", 4.40mm Width)  Series  Switch Circuit  SPST - NO  Multiplexer/Demultiplexer Circuit  Number of Circuits  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  Charge Injection  Integrated Circuits (ICs)  Integrated Circui
Category  Integrated Circuits (ICs)  Interface - Analog Switches, Multiplexers, Demultiplexers  Package  16-TSSOP (0.173", 4.40mm Width)  Series  - Switch Circuit  SPST - NO  Multiplexer/Demultiplexer Circuit  1:1  Number of Circuits  4  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  Integrated Circuits (ICs)  Integrated Circuits (ICs)  A.40mm Width)  -  -  4.5 V ~ 25 V  4  5 V ~ 25 V  4  5 V ~ 22 V  5 Switch Time (Ton, Toff) (Max)  -  300ns, 200ns  -  -  -  -  -  -  -  -  -  -  -  -  -
Interface - Analog Switches, Multiplexers, Demultiplexers Package 16-TSSOP (0.173", 4.40mm Width)  Series - Switch Circuit SPST - NO Multiplexer/Demultiplexer Circuit 1:1 Number of Circuits 4 On-State Resistance (Max) Channel-to-Channel Matching (Ron) Voltage - Supply, Single (V+) Voltage - Supply, Dual (V±) Switch Time (Ton, Toff) (Max) -3db Bandwidth - Interface - Analog Switches, Multiplexers, Demultiplexers 16-TSSOP (0.173", 4.40mm Width)  -  4.5 V ~ 20 V  System Voltage - No Voltage - No Voltage - Supply, Dual (V±) Switch Time (Ton, Toff) (Max)
Package 16-TSSOP (0.173", 4.40mm Width)  Series - Switch Circuit SPST - NO  Multiplexer/Demultiplexer Circuit 1:1  Number of Circuits 4  On-State Resistance (Max) 85 Ohm  Channel-to-Channel Matching (Ron) 2 Ohm  Voltage - Supply, Single (V+) 4.5 V ~ 25 V  Voltage - Supply, Dual (V±) ±4.5 V ~ 22 V  Switch Time (Ton, Toff) (Max) 300ns, 200ns  -3db Bandwidth -
Series - Switch Circuit SPST - NO Multiplexer/Demultiplexer Circuit 1:1 Number of Circuits 4 On-State Resistance (Max) 85 Ohm Channel-to-Channel Matching (Ron) 2 Ohm Voltage - Supply, Single (V+) 4.5 V ~ 25 V Voltage - Supply, Dual (V±) ±4.5 V ~ 22 V Switch Time (Ton, Toff) (Max) 300ns, 200ns -3db Bandwidth -
Switch Circuit  Multiplexer/Demultiplexer Circuit  Number of Circuits  4  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  SPST - NO  1:1  4  4  4  4  4  5 Ohm  2 Ohm  4.5 V ~ 25 V  4.5 V ~ 22 V  5 Witch Time (Ton, Toff) (Max)  - 300ns, 200ns
Multiplexer/Demultiplexer Circuit  Number of Circuits  4  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  1:1  4  4  4  85 Ohm  2 Ohm  4.5 V ~ 25 V  ±4.5 V ~ 22 V  300ns, 200ns
Number of Circuits  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  4  85 Ohm  2 Ohm  4.5 V ~ 25 V  ±4.5 V ~ 22 V  300ns, 200ns  -3db Bandwidth  -
On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  85 Ohm  4.5 V ~ 25 V  ±4.5 V ~ 22 V  300ns, 200ns
Channel-to-Channel Matching (Ron) 2 Ohm  Voltage - Supply, Single (V+) 4.5 V $\sim$ 25 V  Voltage - Supply, Dual (V±) $\pm$ 4.5 V $\sim$ 22 V  Switch Time (Ton, Toff) (Max) 300ns, 200ns  -3db Bandwidth -
Voltage - Supply, Single (V+) $4.5 \text{ V} \sim 25 \text{ V}$ Voltage - Supply, Dual (V±) $\pm 4.5 \text{ V} \sim 22 \text{ V}$ Switch Time (Ton, Toff) (Max) $300 \text{ns}$ , $200 \text{ns}$ -3db Bandwidth $-$
Voltage - Supply, Dual (V $\pm$ ) $\pm 4.5 \text{ V} \sim 22 \text{ V}$ Switch Time (Ton, Toff) (Max) 300ns, 200ns -3db Bandwidth -
Switch Time (Ton, Toff) (Max)  -3db Bandwidth  -300ns, 200ns -3db Bandwidth
-3db Bandwidth -
Charge Injection 1pC
Channel Capacitance (CS(off), CD(off)) 5pF, 5pF
Current - Leakage (IS(off)) (Max) 500pA
Crosstalk -95dB @ 100kHz
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$
Package / Case 16-TSSOP (0.173", 4.40mm Width)
Supplier Device Package 16-TSSOP
Report errors?

## **DG212BDQ-E3 Guarantees**



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## **DG212BDQ-E3 Payment Methods**



















# **DG212BDQ-E3 Shipping Methods**













If you have any question about DG212BDQ-E3, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com