



## **DG333ADW Information**



For Reference Only

Part Number DG333ADW Manufacturer Vishay Siliconix

Category Integrated Circuits (ICs)

Interface - Analog Switches, Multiplexers,

**Demultiplexers** 

**Description** IC SWITCH QUAD SPDT 20SOIC **Package** 20-SOIC (0.295", 7.50mm 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.









## **DG333ADW Specifications**

Manufacturer Part Number         DG333ADW           Manufacturer         Vishay Siliconix           Category         Integrated Circuits (ICs)           Interface - Analog Switches, Multiplexers, Demultiplexers           Package         20-SOIC (0.295", 7.50mm Width)           Series         -           Switch Circuit         SPDT           Multiplexer/Demultiplexer Circuit         2:1           Number of Circuits         1           On-State Resistance (Max)         45 Ohm           Channel-to-Channel Matching (Ron)         2 Ohm (Max)           Voltage - Supply, Single (V+)         5 V ~ 40 V           Voltage - Supply, Dual (V±)         ±4 V ~ 22 V           Switch Time (Ton, Toff) (Max)         175ns, 145ns           -3db Bandwidth         -           Charge Injection         10pC           Channel Capacitance (CS(off), CD(off))         8pF           Current - Leakage (IS(off)) (Max)         250pA           Crosstalk         -80dB @ IMHz           Operating Temperature         -40°C ~ 85°C (TA)           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	•	
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Switch CircuitSPDTMultiplexer/Demultiplexer Circuit2:1Number of Circuits1On-State Resistance (Max)45 OhmChannel-to-Channel Matching (Ron)2 Ohm (Max)Voltage - Supply, Single (V+)5 V ~ 40 VVoltage - Supply, Dual (V±)±4 V ~ 22 VSwitch Time (Ton, Toff) (Max)175ns, 145ns-3db Bandwidth-Charge Injection10pCChannel Capacitance (CS(off), CD(off))8pFCurrent - Leakage (IS(off)) (Max)250pACrosstalk-80dB @ 1MHzOperating Temperature-40°C ~ 85°C (TA)Package / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Package	20-SOIC (0.295", 7.50mm Width)
Multiplexer/Demultiplexer Circuit  Number of Circuits  1  On-State Resistance (Max)  Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  Voltage - Supply, Dual (V±)  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  -  Channel Capacitance (CS(off), CD(off))  Channel Capacitance (CS(off)) (Max)  Crosstalk  -80dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Series	-
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  Channel Capacitance (CS(off), CD(off))  Channel Capacitance (CS(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  -80dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Switch Circuit	SPDT
On-State Resistance (Max) Channel-to-Channel Matching (Ron) 2 Ohm (Max) Voltage - Supply, Single (V+) 5 V ~ 40 V  Voltage - Supply, Dual (V±) 5 witch Time (Ton, Toff) (Max) 175ns, 145ns -3db Bandwidth - Charge Injection 10pC Channel Capacitance (CS(off), CD(off)) 8pF Current - Leakage (IS(off)) (Max) 250pA Crosstalk -80dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Multiplexer/Demultiplexer Circuit	2:1
Channel-to-Channel Matching (Ron)  Voltage - Supply, Single (V+)  5 V ~ 40 V  Voltage - Supply, Dual (V±)  5 W ~ 22 V  Switch Time (Ton, Toff) (Max)  -3db Bandwidth  - Charge Injection  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  -80dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Number of Circuits	1
Voltage - Supply, Single (V+) $5 \text{ V} \sim 40 \text{ V}$ Voltage - Supply, Dual (V±) $\pm 4 \text{ V} \sim 22 \text{ V}$ Switch Time (Ton, Toff) (Max) $175 \text{ns}$ , $145 \text{ns}$ -3db Bandwidth -  Charge Injection $10 \text{pC}$ Channel Capacitance (CS(off), CD(off)) $8 \text{pF}$ Current - Leakage (IS(off)) (Max) $250 \text{pA}$ Crosstalk -80dB @ 1MHz Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA) Package / Case $20\text{-SOIC}$ (0.295", 7.50mm Width) Supplier Device Package	On-State Resistance (Max)	45 Ohm
Voltage - Supply, Dual (V±) ±4 V ~ 22 V  Switch Time (Ton, Toff) (Max) 175ns, 145ns  -3db Bandwidth -  Charge Injection 10pC  Channel Capacitance (CS(off), CD(off)) 8pF  Current - Leakage (IS(off)) (Max) 250pA  Crosstalk -80dB @ 1MHz  Operating Temperature -40°C ~ 85°C (TA)  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Channel-to-Channel Matching (Ron)	2 Ohm (Max)
Switch Time (Ton, Toff) (Max)  -3db Bandwidth  -Charge Injection  10pC  Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  -80dB @ 1MHz  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Voltage - Supply, Single (V+)	5 V ~ 40 V
-3db Bandwidth - 10pC Charge Injection 10pC Channel Capacitance (CS(off), CD(off)) 8pF Current - Leakage (IS(off)) (Max) 250pA Crosstalk -80dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC	Voltage - Supply, Dual (V±)	±4 V ~ 22 V
Charge Injection 10pC  Channel Capacitance (CS(off), CD(off)) 8pF  Current - Leakage (IS(off)) (Max) 250pA  Crosstalk -80dB @ 1MHz  Operating Temperature -40°C ~ 85°C (TA)  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Switch Time (Ton, Toff) (Max)	175ns, 145ns
Channel Capacitance (CS(off), CD(off))  Current - Leakage (IS(off)) (Max)  Crosstalk  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	-3db Bandwidth	-
Current - Leakage (IS(off)) (Max)  Crosstalk  Operating Temperature  -40°C ~ 85°C (TA)  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Charge Injection	10pC
Crosstalk -80dB @ 1MHz  Operating Temperature -40°C ~ 85°C (TA)  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Channel Capacitance (CS(off), CD(off))	8pF
Operating Temperature -40°C ~ 85°C (TA)  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Current - Leakage (IS(off)) (Max)	250pA
Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC	Crosstalk	-80dB @ 1MHz
Supplier Device Package 20-SOIC	Operating Temperature	-40°C ~ 85°C (TA)
	Package / Case	20-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	20-SOIC
		Report errors?

### **DG333ADW 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.

# **DG333ADW Payment Methods**



















## **DG333ADW Shipping Methods**













If you have any question about DG333ADW, please do not hesitate to contact us!

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