



ADUM4151BRIZ Information



For Reference Only

Part Number ADUM4151BRIZ
Manufacturer Analog Devices Inc.

Category Isolators

Digital Isolators

Description DGTL ISOLATOR 5KV 7CH SPI 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.









ADUM4151BRIZ Specifications

Manufacturer Part Number ADUM4151BRIZ Manufacturer Analog Devices Inc. Category Isolators Package 20-SOIC (0.295", 7.50mm Width) Series iCoupler?, SPIsolator? Technology Magnetic Coupling Type SPI Isolated Power No Number of Channels 7 Inputs - Side 1/Side 2 5/2 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 25kV/µs Data Rate 34Mbps Propagation Delay tpLH / tpHL (Max) 14ns, 14ns Pulse Width Distortion (Max) 2ns Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature 40°C ~ 125°C Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC-IC		
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TechnologyMagnetic CouplingTypeSPIIsolated PowerNoNumber of Channels7Inputs - Side 1/Side 2 $5/2$ Channel TypeUnidirectionalVoltage - Isolation $5000Vrms$ Common Mode Transient Immunity (Min) $25kV/\mu s$ Data Rate $34Mbps$ Propagation Delay tpLH / tpHL (Max) $14ns, 14ns$ Pulse Width Distortion (Max) $2ns$ Rise / Fall Time (Typ) $2.5ns, 2.5ns$ Voltage - Supply $3 V \sim 5.5 V$ Operating Temperature $-40^{\circ}C \sim 125^{\circ}C$ Package / Case $20-SOIC (0.295'', 7.50mm Width)$ Supplier Device Package $20-SOIC-IC$	Package	20-SOIC (0.295", 7.50mm Width)
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Number of Channels7Inputs - Side 1/Side 25/2Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)25kV/μsData Rate34MbpsPropagation Delay tpLH / tpHL (Max)14ns, 14nsPulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC-IC	Туре	SPI
Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) Data Rate 34Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply Operating Temperature -40°C ~ 125°C Package / Case Supplier Device Package 20-SOIC (0.295", 7.50mm Width)	Isolated Power	No
Channel Type Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 25kV/µs Data Rate 34Mbps Propagation Delay tpLH / tpHL (Max) 14ns, 14ns Pulse Width Distortion (Max) 2ns Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Number of Channels	7
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Common Mode Transient Immunity (Min) Data Rate 34Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Channel Type	Unidirectional
Data Rate34MbpsPropagation Delay tpLH / tpHL (Max)14ns, 14nsPulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC-IC	Voltage - Isolation	5000Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Common Mode Transient Immunity (Min)	25kV/μs
Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Data Rate	34Mbps
Rise / Fall Time (Typ) $2.5 \text{ns}, 2.5 \text{ns}$ Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $20\text{-SOIC } (0.295^{\circ}, 7.50 \text{mm Width})$ Supplier Device Package 20-SOIC-IC	Propagation Delay tpLH / tpHL (Max)	14ns, 14ns
Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC-IC	Pulse Width Distortion (Max)	2ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $20\text{-SOIC} (0.295^{\circ}, 7.50 \text{mm Width})$ Supplier Device Package 20-SOIC-IC	Rise / Fall Time (Typ)	2.5ns, 2.5ns
Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC-IC	Voltage - Supply	3 V ~ 5.5 V
Supplier Device Package 20-SOIC-IC	Operating Temperature	-40°C ~ 125°C
	Package / Case	20-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	20-SOIC-IC
		Report errors?

ADUM4151BRIZ 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.

ADUM4151BRIZ Payment Methods



















ADUM4151BRIZ Shipping Methods













If you have any question about ADUM4151BRIZ, please do not hesitate to contact us!

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