



ADUM7442ARQZ Information



For Reference Only

Part Number ADUM7442ARQZ Manufacturer Analog Devices Inc.

Category Isolators

Digital Isolators

Description DGTL ISO 1KV 4CH GEN PURP 16QSOP

Package 16-SSOP (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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



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ADUM7442ARQZ Specifications

Manufacturer Part Number ADUM7442ARQZ Manufacturer Analog Devices Inc. Category Isolators Package 16-SSOP (0.154", 3.90mm Width) Series iCoupler? Technology Magnetic Coupling Type General Purpose Isolated Power No Number of Channels 4 Inputs - Side 1/Side 2 2/2 Channel Type Unidirectional Voltage - Isolation 1000Vrms Common Mode Transient Immunity (Min) 15kV/µs Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 75ns, 75ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package 16-QSOP		
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TechnologyMagnetic CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels4Inputs - Side 1/Side 22/2Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/μsData Rate1MbpsPropagation Delay tpLH / tpHL (Max)75ns, 75nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case16-SSOP (0.154", 3.90mm Width)Supplier Device Package16-QSOP	Package	16-SSOP (0.154", 3.90mm Width)
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Channel Type Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case Supplier Device Package Unidirectional Unoverse Unidirectional Unoverse Unidirectional 1000Vrms 15kV/µs 15kV/µs 15kV/µs 15kV/µs 15kV/µs 15kV/µs 15kV/µs 15kV/µs 25ns 25ns 25ns Voltage - Supply 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package	Number of Channels	4
Voltage - Isolation 1000Vrms Common Mode Transient Immunity (Min) 15kV/µs Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 75ns, 75ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package 16-QSOP	Inputs - Side 1/Side 2	2/2
Common Mode Transient Immunity (Min) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 75ns, 75ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package	Channel Type	Unidirectional
Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 75ns, 75ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package 16-QSOP	Voltage - Isolation	1000Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package	Common Mode Transient Immunity (Min)	$15kV/\mu s$
Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 105°C Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package	Data Rate	1Mbps
Rise / Fall Time (Typ) $2ns, 2ns$ Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case 16-SSOP (0.154", 3.90mm Width)Supplier Device Package 16-QSOP	Propagation Delay tpLH / tpHL (Max)	75ns, 75ns
Voltage - Supply $3\ V \sim 5.5\ V$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-SSOP } (0.154^{\circ}\text{, 3.90mm Width})$ Supplier Device Package 16-QSOP	Pulse Width Distortion (Max)	25ns
Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-SSOP} (0.154^{\circ}, 3.90 \text{mm Width})$ Supplier Device Package 16-QSOP	Rise / Fall Time (Typ)	2ns, 2ns
Package / Case 16-SSOP (0.154", 3.90mm Width) Supplier Device Package 16-QSOP	Voltage - Supply	3 V ~ 5.5 V
Supplier Device Package 16-QSOP	Operating Temperature	-40°C ~ 105°C
	Package / Case	16-SSOP (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-QSOP
		Report errors?

ADUM7442ARQZ 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.

ADUM7442ARQZ Payment Methods





















ADUM7442ARQZ Shipping Methods













If you have any question about ADUM7442ARQZ, please do not hesitate to contact us!

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