

# ADUM1401CRW-RL

### **ADUM1401CRW-RL Information**



For Reference Only

Part Number ADUM1401CRW-RL Manufacturer Analog Devices Inc.

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 2.5KV GEN PURP 16SOIC **Package** 16-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**

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# **ADUM1401CRW-RL Specifications**

| Manufacturer Part Number         ADUMI401CRW-RL           Manufacturer         Analog Devices Inc.           Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC |                                      |                                |
|--|--------------------------------------|--------------------------------|
| Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC  | Manufacturer Part Number             | ADUM1401CRW-RL                 |
| Package         16-SOIC (0.295", 7.50mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC  | Manufacturer                         | Analog Devices Inc.            |
| Package         16-SOIC (0.295", 7.50mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/μs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC  | Category                             | Isolators                      |
| Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/μs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC   |                                      | Digital Isolators              |
| Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         25kV/μs           Data Rate         90Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         2ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.7 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC  | Package                              | 16-SOIC (0.295", 7.50mm Width) |
| Type General Purpose  Isolated Power No Number of Channels 4 Inputs - Side 1/Side 2 3/1 Channel Type Unidirectional  Voltage - Isolation 2500Vrms  Common Mode Transient Immunity (Min) 25kV/µs  Data Rate 90Mbps  Propagation Delay tpLH / tpHL (Max) 32ns, 32ns  Pulse Width Distortion (Max) 2ns  Rise / Fall Time (Typ) 2.5ns, 2.5ns  Voltage - Supply 2.7 V ~ 5.5 V  Operating Temperature -40°C ~ 105°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package  | Series                               | iCoupler?                      |
| Isolated PowerNoNumber of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/µsData Rate90MbpsPropagation Delay tpLH / tpHL (Max)32ns, 32nsPulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC   | Technology                           | Magnetic Coupling              |
| Number of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μsData Rate90MbpsPropagation Delay tpLH / tpHL (Max)32ns, 32nsPulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC   | Туре                                 | General Purpose                |
| Inputs - Side 1/Side 2  Channel Type  Unidirectional  Voltage - Isolation  2500Vrms  Common Mode Transient Immunity (Min)  Data Rate  90Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  2.7 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package  | Isolated Power                       | No                             |
| Channel Type Voltage - Isolation 2500Vrms  Common Mode Transient Immunity (Min) 25kV/µs  Data Rate 90Mbps  Propagation Delay tpLH / tpHL (Max) 2sns  Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns, 2.5ns  Voltage - Supply 2.7 V ~ 5.5 V  Operating Temperature -40°C ~ 105°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package   | Number of Channels                   | 4                              |
| Voltage - Isolation 2500Vrms  Common Mode Transient Immunity (Min) 25kV/ $\mu$ s  Data Rate 90Mbps  Propagation Delay tpLH / tpHL (Max) 32ns, 32ns  Pulse Width Distortion (Max) 2ns  Rise / Fall Time (Typ) 2.5ns, 2.5ns  Voltage - Supply 2.7 V ~ 5.5 V  Operating Temperature -40°C ~ 105°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC   | Inputs - Side 1/Side 2               | 3/1                            |
| Common Mode Transient Immunity (Min)  Data Rate  90Mbps  Propagation Delay tpLH / tpHL (Max)  21s  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  2.7 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package  | Channel Type                         | Unidirectional                 |
| Data Rate90MbpsPropagation Delay tpLH / tpHL (Max)32ns, 32nsPulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC   | Voltage - Isolation                  | 2500Vrms                       |
| Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  2.7 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package  | Common Mode Transient Immunity (Min) | 25kV/μs                        |
| Pulse Width Distortion (Max)2nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC   | Data Rate                            | 90Mbps                         |
| Rise / Fall Time (Typ) $2.5 \text{ns}, 2.5 \text{ns}$ Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ ( $0.295^{\circ}$ , $7.50 \text{mm}$ Width)Supplier Device Package $16\text{-SOIC}$   | Propagation Delay tpLH / tpHL (Max)  | 32ns, 32ns                     |
| Voltage - Supply $ 2.7 \text{ V} \sim 5.5 \text{ V} $ Operating Temperature $ -40^{\circ}\text{C} \sim 105^{\circ}\text{C} $ Package / Case $ 16\text{-SOIC} (0.295'', 7.50 \text{mm Width}) $ Supplier Device Package $ 16\text{-SOIC} $  | Pulse Width Distortion (Max)         | 2ns                            |
| Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width) Supplier Device Package $16\text{-SOIC}$   | Rise / Fall Time (Typ)               | 2.5ns, 2.5ns                   |
| Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC  | Voltage - Supply                     | 2.7 V ~ 5.5 V                  |
| Supplier Device Package 16-SOIC  | Operating Temperature                | -40°C ~ 105°C                  |
|  | Package / Case                       | 16-SOIC (0.295", 7.50mm Width) |
| Report errors?   | Supplier Device Package              | 16-SOIC                        |
|  |                                      | Report errors?                 |

### **ADUM1401CRW-RL 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.

### **ADUM1401CRW-RL Payment Methods**



















### **ADUM1401CRW-RL Shipping Methods**













If you have any question about ADUM1401CRW-RL, please do not hesitate to contact us!

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