



ISO7731QDWQ1 Information



For Reference Only

Part Number ISO7731QDWQ1
Manufacturer Texas Instruments

Category Isolators

Digital Isolators

Description DGTL ISO 5KV 3CH GEN PRP 16SOIC

Package -

For the pricing/inventory/lead time, please contact

us

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ISO7731QDWQ1 Specifications

| Manufacturer Part Number ISO7731QDWQ1 Manufacturer Texas Instruments Category Isolators Package - Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/µs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | | |
|--|--------------------------------------|----------------------|
| Category Isolators | Manufacturer Part Number | ISO7731QDWQ1 |
| Digital Isolators | Manufacturer | Texas Instruments |
| Package - Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Category | Isolators |
| Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | | Digital Isolators |
| Technology Type General Purpose Isolated Power No Number of Channels Inputs - Side 1/Side 2 Channel Type Unidirectional 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 General Purpose General Purpose No General Purpose No Ano Ano 1 1 1 1 1 1 1 1 1 1 1 1 1 | Package | - |
| Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/µs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package | Series | Automotive, AEC-Q100 |
| Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Technology | Capacitive Coupling |
| Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Туре | General Purpose |
| Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case Supplier Device Package 2/1 Unidirectional Voltage - Isolation 40kV/μs 100Mbps 16ns, 16ns 4.9ns 1.3ns, 1.4ns 2.25 V ~ 5.5 V -40°C ~ 125°C | Isolated Power | No |
| Channel Type Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case Supplier Device Package Unidirectional Unidirectional Unidirectional 100Vrms 40kV/µs 100Mbps 16ns, 16ns 14.9ns 1.3ns, 1.4ns 2.25 V ~ 5.5 V -40°C ~ 125°C -40°C ~ 125°C | Number of Channels | 3 |
| Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply Operating Temperature Package / Case Supplier Device Package - 5000Vrms 6000Vrms 6000Vrm | Inputs - Side 1/Side 2 | 2/1 |
| Common Mode Transient Immunity (Min) 40kV/ μ s Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Channel Type | Unidirectional |
| Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 16ns, 16ns Pulse Width Distortion (Max) 4.9ns Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Voltage - Isolation | 5000Vrms |
| Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case Supplier Device Package 16ns, 16ns 4.9ns 1.3ns, 1.4ns 2.25 V ~ 5.5 V -40°C ~ 125°C - Supplier Device Package | Common Mode Transient Immunity (Min) | $40kV/\mu s$ |
| Pulse Width Distortion (Max) Rise / Fall Time (Typ) 1.3ns, 1.4ns Voltage - Supply 2.25 V ~ 5.5 V Operating Temperature Package / Case Supplier Device Package - | Data Rate | 100Mbps |
| Rise / Fall Time (Typ) $1.3 \text{ns}, 1.4 \text{ns}$ Voltage - Supply $2.25 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case-Supplier Device Package- | Propagation Delay tpLH / tpHL (Max) | 16ns, 16ns |
| Voltage - Supply $ 2.25 \text{ V} \sim 5.5 \text{ V} $ Operating Temperature $ -40^{\circ}\text{C} \sim 125^{\circ}\text{C} $ Package / Case $ - $ Supplier Device Package $ - $ | Pulse Width Distortion (Max) | 4.9ns |
| Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package - | Rise / Fall Time (Typ) | 1.3ns, 1.4ns |
| Package / Case - Supplier Device Package - | Voltage - Supply | 2.25 V ~ 5.5 V |
| Supplier Device Package - | Operating Temperature | -40°C ~ 125°C |
| | Package / Case | - |
| Report errors | Supplier Device Package | - |
| Report circles | | Report errors? |

ISO7731QDWQ1 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.

ISO7731QDWQ1 Payment Methods



















ISO7731QDWQ1 Shipping Methods













If you have any question about ISO7731QDWQ1, please do not hesitate to contact us!

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