



# ISO7741QDWQ1 Information



For Reference Only

Part Number ISO7741QDWQ1
Manufacturer Texas Instruments

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 5KV 4CH GEN PRP 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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## ISO7741QDWQ1 Specifications

Manufacturer Part Number         ISO7741QDWQ1           Manufacturer         Texas Instruments           Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           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)         2.4ns, 2.4ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC (0.295", 7.50mm Width)		
Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           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)         2.4ns, 2.4ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer Part Number	ISO7741QDWQ1
Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           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)         2.4ns, 2.4ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer	Texas Instruments
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SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)40kV/µsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)2.4ns, 2.4nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC		Digital Isolators
Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           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)         2.4ns, 2.4ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°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 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) 2.4ns, 2.4ns  Voltage - Supply 2.25 V ~ 5.5 V  Operating Temperature -40°C ~ 125°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 116-SOIC	Series	Automotive, AEC-Q100
Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         3/1           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)         2.4ns, 2.4ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Technology	Capacitive Coupling
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Inputs - Side 1/Side 2  Channel Type  Unidirectional  Voltage - Isolation  Somovrms  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  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Isolated Power	No
Channel Type  Voltage - Isolation  5000Vrms  Common Mode Transient Immunity (Min)  Data Rate  100Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  2.4ns, 2.4ns  Voltage - Supply  2.25 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Number of Channels	4
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) 2.4ns, 2.4ns  Voltage - Supply 2.25 V ~ 5.5 V  Operating Temperature -40°C ~ 125°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  100Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.4ns, 2.4ns  Voltage - Supply  2.25 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Channel Type	Unidirectional
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Voltage - Supply $2.25 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC} \ (0.295'', 7.50 \text{mm Width})$ Supplier Device Package $16\text{-SOIC}$	Pulse Width Distortion (Max)	4.9ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width) Supplier Device Package $16\text{-SOIC}$	Rise / Fall Time (Typ)	2.4ns, 2.4ns
Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	2.25 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 125°C
	Package / Case	16-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

### ISO7741QDWQ1 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.

### ISO7741QDWQ1 Payment Methods



















## ISO7741QDWQ1 Shipping Methods













If you have any question about ISO7741QDWQ1, please do not hesitate to contact us!

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