



# ISO7342FCQDWQ1 Information



For Reference Only

Part Number ISO7342FCQDWQ1
Manufacturer Texas Instruments

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 3KV 4CH 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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# ISO7342FCQDWQ1 Specifications

Manufacturer Part Number         ISO7342FCQDWQ1           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         2/2           Channel Type         Unidirectional           Voltage - Isolation         3000Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         58ns, 58ns           Pulse Width Distortion (Max)         4.Ins           Rise / Fall Time (Typ)         2.1ns, 1.7ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°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         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         2/2           Channel Type         Unidirectional           Voltage - Isolation         3000Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         58ns, 58ns           Pulse Width Distortion (Max)         4.1ns           Rise / Fall Time (Typ)         2.1ns, 1.7ns           Voltage - Supply         3 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	ISO7342FCQDWQ1
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         2/2           Channel Type         Unidirectional           Voltage - Isolation         3000Vrms           Common Mode Transient Immunity (Min)         25kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         58ns, 58ns           Pulse Width Distortion (Max)         4.1ns           Rise / Fall Time (Typ)         2.1ns, 1.7ns           Voltage - Supply         3 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 22/2Channel TypeUnidirectionalVoltage - Isolation3000VrmsCommon Mode Transient Immunity (Min)25kV/µsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)58ns, 58nsPulse Width Distortion (Max)4.1nsRise / Fall Time (Typ)2.1ns, 1.7nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC		Digital Isolators
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Isolated Power         No           Number of Channels         4           Inputs - Side 1/Side 2         2/2           Channel Type         Unidirectional           Voltage - Isolation         3000Vrms           Common Mode Transient Immunity (Min)         25kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         58ns, 58ns           Pulse Width Distortion (Max)         4.1ns           Rise / Fall Time (Typ)         2.1ns, 1.7ns           Voltage - Supply         3 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
Number of Channels4Inputs - Side 1/Side 22/2Channel TypeUnidirectionalVoltage - Isolation3000VrmsCommon Mode Transient Immunity (Min)25kV/μsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)58ns, 58nsPulse Width Distortion (Max)4.1nsRise / Fall Time (Typ)2.1ns, 1.7nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC	Type	General Purpose
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Channel Type  Voltage - Isolation  3000Vrms  Common Mode Transient Immunity (Min)  Data Rate  25Mbps  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	Number of Channels	4
Voltage - Isolation  3000Vrms  Common Mode Transient Immunity (Min)  25kV/µs  Data Rate  25Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.1ns, 1.7ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Inputs - Side 1/Side 2	2/2
Common Mode Transient Immunity (Min)  Data Rate  25Mbps  Propagation Delay tpLH / tpHL (Max)  58ns, 58ns  Pulse Width Distortion (Max)  4.1ns  Rise / Fall Time (Typ)  2.1ns, 1.7ns  Voltage - Supply  3 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
Data Rate 25Mbps  Propagation Delay tpLH / tpHL (Max) 58ns, 58ns  Pulse Width Distortion (Max) 4.1ns  Rise / Fall Time (Typ) 2.1ns, 1.7ns  Voltage - Supply 3 V ~ 5.5 V  Operating Temperature -40°C ~ 125°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC	Voltage - Isolation	3000Vrms
Propagation Delay tpLH / tpHL (Max)  S8ns, 58ns  Pulse Width Distortion (Max)  4.1ns  Rise / Fall Time (Typ)  2.1ns, 1.7ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package  16-SOIC	Common Mode Transient Immunity (Min)	$25kV/\mu s$
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.1ns, 1.7ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Data Rate	25Mbps
Rise / Fall Time (Typ) $2.1 ns, 1.7 ns$ Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width)Supplier Device Package $16\text{-SOIC}$	Propagation Delay tpLH / tpHL (Max)	58ns, 58ns
Voltage - Supply $3\ V \sim 5.5\ V$ 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)	4.1ns
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)	2.1ns, 1.7ns
Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	3 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?

## ISO7342FCQDWQ1 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.

### ISO7342FCQDWQ1 Payment Methods





















## ISO7342FCQDWQ1 Shipping Methods













If you have any question about ISO7342FCQDWQ1, please do not hesitate to contact us!

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