



### **ISO7720FDW Information**



For Reference Only

Part Number ISO7720FDW

Manufacturer Texas Instruments

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 5KV 2CH GEN PRP 16SOIC

Package -

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## **ISO7720FDW Specifications**

| Manufacturer Part Number         ISO7720FDW           Manufacturer         Texas Instruments           Category         Isolators           Package         -           Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/µs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         - |                                      |                     |
|---|--------------------------------------|---------------------|
| Category         Isolators           Package         -           Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/µs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         -  | Manufacturer Part Number             | ISO7720FDW          |
| Package         -           Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/μs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         -   | Manufacturer                         | Texas Instruments   |
| Package         -           Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/μs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         -   | Category                             | Isolators           |
| Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/µs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         -   |                                      | Digital Isolators   |
| Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         2           Inputs - Side 1/Side 2         2/0           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         85kV/µs           Data Rate         100Mbps           Propagation Delay tpLH / tpHL (Max)         16ns, 16ns           Pulse Width Distortion (Max)         4.9ns           Rise / Fall Time (Typ)         1.8ns, 1.9ns           Voltage - Supply         2.25 V ~ 5.5 V           Operating Temperature         -55°C ~ 125°C           Package / Case         -           Supplier Device Package         -  | Package                              | -                   |
| TypeGeneral PurposeIsolated PowerNoNumber of Channels2Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)85kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-  | Series                               | -                   |
| Isolated PowerNoNumber of Channels2Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)85kV/µsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-   | Technology                           | Capacitive Coupling |
| Number of Channels2Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)85kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-   | Type                                 | General Purpose     |
| Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)85kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-  | 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  5000Vrms  85kV/µs  100Mbps  16ns, 16ns  14.9ns  1.8ns, 1.9ns  2.25 V ~ 5.5 V  -55°C ~ 125°C  -55°C ~ 125°C  | Number of Channels                   | 2                   |
| Voltage - Isolation 5000Vrms  Common Mode Transient Immunity (Min) 85kV/μs  Data Rate 100Mbps  Propagation Delay tpLH / tpHL (Max) 16ns, 16ns  Pulse Width Distortion (Max) 4.9ns  Rise / Fall Time (Typ) 1.8ns, 1.9ns  Voltage - Supply 2.25 V ~ 5.5 V  Operating Temperature -55°C ~ 125°C  Package / Case -  Supplier Device Package -   | Inputs - Side 1/Side 2               | 2/0                 |
| Common Mode Transient Immunity (Min)  Data Rate  100Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  1.8ns, 1.9ns  Voltage - Supply  2.25 V ~ 5.5 V  Operating Temperature  -55°C ~ 125°C  Package / Case  Supplier Device Package  -   | Channel Type                         | Unidirectional      |
| Data Rate100MbpsPropagation Delay tpLH / tpHL (Max)16ns, 16nsPulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-   | Voltage - Isolation                  | 5000Vrms            |
| Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  Propagation Delay tpLH / tpHL (Max)  16ns, 16ns  4.9ns  1.8ns, 1.9ns  2.25 V ~ 5.5 V  -55°C ~ 125°C  Package / Case  Supplier Device Package  -   | Common Mode Transient Immunity (Min) | 85kV/μs             |
| Pulse Width Distortion (Max)4.9nsRise / Fall Time (Typ)1.8ns, 1.9nsVoltage - Supply2.25 V ~ 5.5 VOperating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-  | Data Rate                            | 100Mbps             |
| Rise / Fall Time (Typ)  1.8ns, 1.9ns  Voltage - Supply  2.25 V ~ 5.5 V  Operating Temperature  -55°C ~ 125°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 $ -55^{\circ}\text{C} \sim 125^{\circ}\text{C} $ Package / Case $ - $ Supplier Device Package $ - $  | Pulse Width Distortion (Max)         | 4.9ns               |
| Operating Temperature-55°C ~ 125°CPackage / Case-Supplier Device Package-   | Rise / Fall Time (Typ)               | 1.8ns, 1.9ns        |
| Package / Case - Supplier Device Package -  | Voltage - Supply                     | 2.25 V ~ 5.5 V      |
| Supplier Device Package -   | Operating Temperature                | -55°C ~ 125°C       |
|   | Package / Case                       | -                   |
| Report errors?  | Supplier Device Package              | -                   |
| · ·   |                                      | Report errors?      |

#### **ISO7720FDW 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.

## **ISO7720FDW Payment Methods**



















### **ISO7720FDW Shipping Methods**













If you have any question about ISO7720FDW, please do not hesitate to contact us!

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