

### **IL422 Information**



For Reference Only

Part Number IL422

Manufacturer NVE Corp/Isolation Products

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO RS422/RS485 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



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.









# **IL422 Specifications**

Manufacturer Part Number         IL422           Manufacturer         NVE Corp/Isolation Products           Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         IsoLoop?           Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°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         IsoLoop?           Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer Part Number	IL422
Package         16-SOIC (0.295", 7.50mm Width)           Series         IsoLoop?           Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer	NVE Corp/Isolation Products
Package         16-SOIC (0.295", 7.50mm Width)           Series         IsoLoop?           Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Category	Isolators
Series         IsoLoop?           Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC		Digital Isolators
Technology         GMR (Giant Magnetoresistive)           Type         RS422, RS485           Isolated Power         No           Number of Channels         3           Inputs - Side 1/Side 2         2/1           Channel Type         Unidirectional           Voltage - Isolation         2500Vrms           Common Mode Transient Immunity (Min)         20kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         32ns, 32ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         8ns, 8ns           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 100°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Package	16-SOIC (0.295", 7.50mm Width)
Type       RS422, RS485         Isolated Power       No         Number of Channels       3         Inputs - Side 1/Side 2       2/1         Channel Type       Unidirectional         Voltage - Isolation       2500Vrms         Common Mode Transient Immunity (Min)       20kV/µs         Data Rate       25Mbps         Propagation Delay tpLH / tpHL (Max)       32ns, 32ns         Pulse Width Distortion (Max)       -         Rise / Fall Time (Typ)       8ns, 8ns         Voltage - Supply       3 V ~ 5.5 V, 4.5 V ~ 5.5 V         Operating Temperature       -40°C ~ 100°C         Package / Case       16-SOIC (0.295", 7.50mm Width)         Supplier Device Package       16-SOIC	Series	IsoLoop?
Isolated PowerNoNumber of Channels3Inputs - Side 1/Side 2 $2/1$ Channel TypeUnidirectionalVoltage - Isolation $2500Vrms$ Common Mode Transient Immunity (Min) $20kV/\mu s$ Data Rate $25Mbps$ Propagation Delay tpLH / tpHL (Max) $32ns$ , $32ns$ Pulse Width Distortion (Max)-Rise / Fall Time (Typ) $8ns$ , $8ns$ Voltage - Supply $3 V \sim 5.5 V$ , $4.5 V \sim 5.5 V$ Operating Temperature $-40^{\circ}C \sim 100^{\circ}C$ Package / Case $16\text{-SOIC}$ ( $0.295^{\circ}$ , $7.50mm$ Width)Supplier Device Package $16\text{-SOIC}$	Technology	GMR (Giant Magnetoresistive)
Number of Channels3Inputs - Side 1/Side 22/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)20kV/μsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)32ns, 32nsPulse Width Distortion (Max)-Rise / Fall Time (Typ)8ns, 8nsVoltage - Supply3 V ~ 5.5 V, 4.5 V ~ 5.5 VOperating Temperature-40°C ~ 100°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC	Type	RS422, RS485
Inputs - Side 1/Side 2  Channel Type  Unidirectional  Voltage - Isolation  2500Vrms  Common Mode Transient Immunity (Min)  Data Rate  25Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  8ns, 8ns  Voltage - Supply  Operating Temperature  -40°C ~ 100°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) 20kV/µs  Data Rate 25Mbps Propagation Delay tpLH / tpHL (Max) 23ns, 32ns  Pulse Width Distortion (Max) Rise / Fall Time (Typ) 8ns, 8ns  Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature -40°C ~ 100°C  Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package	Number of Channels	3
Voltage - Isolation 2500Vrms  Common Mode Transient Immunity (Min) 20kV/ $\mu$ s  Data Rate 25Mbps  Propagation Delay tpLH / tpHL (Max) 32ns, 32ns  Pulse Width Distortion (Max) - Rise / Fall Time (Typ) 8ns, 8ns  Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature -40°C ~ 100°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC	Inputs - Side 1/Side 2	2/1
Common Mode Transient Immunity (Min)  Data Rate  25Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  8ns, 8ns  Voltage - Supply  3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature  -40°C ~ 100°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Channel Type	Unidirectional
Data Rate 25Mbps  Propagation Delay tpLH / tpHL (Max) 32ns, 32ns  Pulse Width Distortion (Max) -  Rise / Fall Time (Typ) 8ns, 8ns  Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature -40°C ~ 100°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC	Voltage - Isolation	2500Vrms
Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  8ns, 8ns  Voltage - Supply  3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature  -40°C ~ 100°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Common Mode Transient Immunity (Min)	20kV/μs
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  8ns, 8ns  Voltage - Supply  3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature  -40°C ~ 100°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Data Rate	25Mbps
Rise / Fall Time (Typ) 8ns, 8ns  Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ , $4.5 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width)  Supplier Device Package $16\text{-SOIC}$	Propagation Delay tpLH / tpHL (Max)	32ns, 32ns
Voltage - Supply $3\ V \sim 5.5\ V, 4.5\ V \sim 5.5\ V$ Operating Temperature $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$ Package / Case $16\text{-SOIC}\ (0.295'', 7.50\text{mm Width})$ Supplier Device Package $16\text{-SOIC}$	Pulse Width Distortion (Max)	-
Operating Temperature $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width) Supplier Device Package $16\text{-SOIC}$	Rise / Fall Time (Typ)	8ns, 8ns
Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	3 V ~ 5.5 V, 4.5 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 100°C
	Package / Case	16-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

### **IL422 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.

## **IL422 Payment Methods**



















# **IL422 Shipping Methods**













If you have any question about IL422, please do not hesitate to contact us!

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