



### **IL3585VE Information**

Part Number IL3585VE

Manufacturer NVE Corp/Isolation Products

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 6KV RS422/RS485 16SOIC

**Package** 16-SOIC (0.154", 3.90mm 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**

For Reference Only

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.









# **IL3585VE Specifications**

Manufacturer Part Number         IL3885VE           Manufacturer         NVE Corp/Isolation Products           Category         Isolators           Package         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/µs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm Width)           Supplier Device Package         16-SOIC		
Category         Isolators           Package         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/µs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm Width)           Supplier Device Package         16-SOIC	Manufacturer Part Number	IL3585VE
Package         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/µs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm Width)           Supplier Device Package         16-SOIC	Manufacturer	NVE Corp/Isolation Products
Package         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/μs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/µs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm 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         6000Vrms           Common Mode Transient Immunity (Min)         30kV/μs           Data Rate         40Mbps           Propagation Delay tpLH / tpHL (Max)         35ns, 35ns           Pulse Width Distortion (Max)         -           Rise / Fall Time (Typ)         -           Voltage - Supply         3 V ~ 5.5 V, 4.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 85°C           Package / Case         16-SOIC (0.154", 3.90mm Width)           Supplier Device Package         16-SOIC	Package	16-SOIC (0.154", 3.90mm Width)
Type RS422, RS485  Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 6000Vrms Common Mode Transient Immunity (Min) 30kV/µs Data Rate 40Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) - Rise / Fall Time (Typ) Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V Operating Temperature -40°C ~ 85°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Series	IsoLoop?
Isolated Power  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)  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  -40°C ~ 85°C  Package / Case  16-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Technology	GMR (Giant Magnetoresistive)
Number of Channels3Inputs - Side 1/Side 22/1Channel TypeUnidirectionalVoltage - Isolation6000VrmsCommon Mode Transient Immunity (Min)30kV/μsData Rate40MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)-Rise / Fall Time (Typ)-Voltage - Supply3 V ~ 5.5 V, 4.5 V ~ 5.5 VOperating Temperature-40°C ~ 85°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Type	RS422, RS485
Inputs - Side 1/Side 22/1Channel TypeUnidirectionalVoltage - Isolation6000VrmsCommon Mode Transient Immunity (Min)30kV/μsData Rate40MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)-Rise / Fall Time (Typ)-Voltage - Supply3 V ~ 5.5 V, 4.5 V ~ 5.5 VOperating Temperature-40°C ~ 85°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Isolated Power	No
Channel Type Voltage - Isolation 6000Vrms Common Mode Transient Immunity (Min) 30kV/µs  Data Rate 40Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns  Pulse Width Distortion (Max) - Rise / Fall Time (Typ) - Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V Operating Temperature -40°C ~ 85°C  Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Number of Channels	3
Voltage - Isolation 6000Vrms  Common Mode Transient Immunity (Min) 30kV/µs  Data Rate 40Mbps  Propagation Delay tpLH / tpHL (Max) 35ns, 35ns  Pulse Width Distortion (Max) - Rise / Fall Time (Typ) -  Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature -40°C ~ 85°C  Package / Case 16-SOIC (0.154", 3.90mm Width)  Supplier Device Package 16-SOIC	Inputs - Side 1/Side 2	2/1
Common Mode Transient Immunity (Min)  Data Rate  40Mbps  Propagation Delay tpLH / tpHL (Max)  35ns, 35ns  Pulse Width Distortion (Max)  - Rise / Fall Time (Typ)  - Voltage - Supply  3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature  -40°C ~ 85°C  Package / Case  16-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Channel Type	Unidirectional
Data Rate 40Mbps  Propagation Delay tpLH / tpHL (Max) 35ns, 35ns  Pulse Width Distortion (Max) -  Rise / Fall Time (Typ) -  Voltage - Supply 3 V ~ 5.5 V, 4.5 V ~ 5.5 V  Operating Temperature -40°C ~ 85°C  Package / Case 16-SOIC (0.154", 3.90mm Width)  Supplier Device Package 16-SOIC	Voltage - Isolation	6000Vrms
Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  Propagation Delay tpLH / tpHL (Max)  -  Rise / Fall Time (Typ)  -  Voltage - Supply  Operating Temperature  -40°C ~ 85°C  Package / Case  16-SOIC (0.154", 3.90mm Width)  Supplier Device Package  16-SOIC	Common Mode Transient Immunity (Min)	$30kV/\mu s$
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  Package / Case  16-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Data Rate	40Mbps
Rise / Fall Time (Typ) - Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}, 4.5 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.154", 3.90mm Width)  Supplier Device Package $16\text{-SOIC}$	Propagation Delay tpLH / tpHL (Max)	35ns, 35ns
Voltage - Supply $3\ V \sim 5.5\ V, 4.5\ V \sim 5.5\ V$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $16\text{-SOIC}\ (0.154\text{"}, 3.90\text{mm Width})$ Supplier Device Package $16\text{-SOIC}$	Pulse Width Distortion (Max)	-
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.154", 3.90mm Width) Supplier Device Package $16\text{-SOIC}$	Rise / Fall Time (Typ)	-
Package / Case 16-SOIC (0.154", 3.90mm 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 ~ 85°C
	Package / Case	16-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

### **IL3585VE 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.

## **IL3585VE Payment Methods**





















## **IL3585VE Shipping Methods**













If you have any question about IL3585VE, please do not hesitate to contact us!

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