

# ADUM7643CRQZ-RL7

## ADUM7643CRQZ-RL7 Information



For Reference Only

Part Number ADUM7643CRQZ-RL7
Manufacturer Analog Devices Inc.

**Category** Isolators

**Digital Isolators** 

**Description** DGTL ISO 1KV 6CH GEN PURP 20QSOP

**Package** 20-SSOP (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**

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.









# **ADUM7643CRQZ-RL7 Specifications**

Manufacturer Part Number         ADUM7643CRQZ-RL7           Manufacturer         Analog Devices Inc.           Category         Isolators           Package         20-SSOP (0.154", 3.90mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP		
Category         Isolators           Package         20-SSOP (0.154", 3.90mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP	Manufacturer Part Number	ADUM7643CRQZ-RL7
Package         20-SSOP (0.154", 3.90mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP	Manufacturer	Analog Devices Inc.
Package         20-SSOP (0.154", 3.90mm Width)           Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP	Category	Isolators
Series         iCoupler?           Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/µs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP		Digital Isolators
Technology         Magnetic Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         3/3           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           Common Mode Transient Immunity (Min)         15kV/μs           Data Rate         25Mbps           Propagation Delay tpLH / tpHL (Max)         50ns, 50ns           Pulse Width Distortion (Max)         6ns           Rise / Fall Time (Typ)         2ns, 2ns           Voltage - Supply         3 V ~ 5.5 V           Operating Temperature         -40°C ~ 105°C           Package / Case         20-SSOP (0.154", 3.90mm Width)           Supplier Device Package         20-QSOP	Package	20-SSOP (0.154", 3.90mm Width)
TypeGeneral PurposeIsolated PowerNoNumber of Channels6Inputs - Side 1/Side 23/3Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/µsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)6nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case20-SSOP (0.154", 3.90mm Width)Supplier Device Package20-QSOP	Series	iCoupler?
Isolated PowerNoNumber of Channels6Inputs - Side 1/Side 23/3Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/µsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)6nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case20-SSOP (0.154", 3.90mm Width)Supplier Device Package20-QSOP	Technology	Magnetic Coupling
Number of Channels6Inputs - Side 1/Side 23/3Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/μsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)6nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case20-SSOP (0.154", 3.90mm Width)Supplier Device Package20-QSOP	Туре	General Purpose
Inputs - Side 1/Side 23/3Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/μsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)6nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case20-SSOP (0.154", 3.90mm Width)Supplier Device Package20-QSOP	Isolated Power	No
Channel TypeUnidirectionalVoltage - Isolation1000VrmsCommon Mode Transient Immunity (Min)15kV/μsData Rate25MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)6nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 105°CPackage / Case20-SSOP (0.154", 3.90mm Width)Supplier Device Package20-QSOP	Number of Channels	6
Voltage - Isolation 1000Vrms  Common Mode Transient Immunity (Min) 15kV/µs  Data Rate 25Mbps  Propagation Delay tpLH / tpHL (Max) 50ns, 50ns  Pulse Width Distortion (Max) 6ns  Rise / Fall Time (Typ) 2ns, 2ns  Voltage - Supply 3 V ~ 5.5 V  Operating Temperature -40°C ~ 105°C  Package / Case 20-SSOP (0.154", 3.90mm Width)  Supplier Device Package 20-QSOP	Inputs - Side 1/Side 2	3/3
Common Mode Transient Immunity (Min)  Data Rate  25Mbps  Propagation Delay tpLH / tpHL (Max)  50ns, 50ns  Pulse Width Distortion (Max)  6ns  Rise / Fall Time (Typ)  2ns, 2ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  20-SSOP (0.154", 3.90mm Width)  Supplier Device Package	Channel Type	Unidirectional
Data Rate 25Mbps  Propagation Delay tpLH / tpHL (Max) 50ns, 50ns  Pulse Width Distortion (Max) 6ns  Rise / Fall Time (Typ) 2ns, 2ns  Voltage - Supply 3 V ~ 5.5 V  Operating Temperature -40°C ~ 105°C  Package / Case 20-SSOP (0.154", 3.90mm Width)  Supplier Device Package 20-QSOP	Voltage - Isolation	1000Vrms
Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2ns, 2ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  20-SSOP (0.154", 3.90mm Width)  Supplier Device Package	Common Mode Transient Immunity (Min)	$15kV/\mu s$
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2ns, 2ns  Voltage - Supply  3 V ~ 5.5 V  Operating Temperature  -40°C ~ 105°C  Package / Case  20-SSOP (0.154", 3.90mm Width)  Supplier Device Package	Data Rate	25Mbps
Rise / Fall Time (Typ) $2ns, 2ns$ Voltage - Supply $3 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $20\text{-SSOP}$ ( $0.154^{\circ}$ , $3.90\text{mm}$ Width)Supplier Device Package $20\text{-QSOP}$	Propagation Delay tpLH / tpHL (Max)	50ns, 50ns
Voltage - Supply $3\ V \sim 5.5\ V$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $20\text{-SSOP } (0.154^{\circ}\text{, 3.90mm Width})$ Supplier Device Package $20\text{-QSOP}$	Pulse Width Distortion (Max)	6ns
Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $20\text{-SSOP} (0.154^{\circ}, 3.90 \text{mm Width})$ Supplier Device Package $20\text{-QSOP}$	Rise / Fall Time (Typ)	2ns, 2ns
Package / Case 20-SSOP (0.154", 3.90mm Width) Supplier Device Package 20-QSOP	Voltage - Supply	3 V ~ 5.5 V
Supplier Device Package 20-QSOP	Operating Temperature	-40°C ~ 105°C
	Package / Case	20-SSOP (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	20-QSOP
		Report errors?

### **ADUM7643CRQZ-RL7 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.

### **ADUM7643CRQZ-RL7 Payment Methods**



















## **ADUM7643CRQZ-RL7 Shipping Methods**













If you have any question about ADUM7643CRQZ-RL7, please do not hesitate to contact us!

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