



ISL43144IR Information



For Reference Only

Part Number ISL43144IR

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)

Interface - Analog Switches, Multiplexers,

Demultiplexers

Description IC SWITCH QUAD SPST 16QFN

Package 16-VQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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Certified Quality

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ISL43144IR Specifications

Manufacturer Part Number ISL43144IR Manufacturer Renesas Electronics America Category Integrated Circuits (ICs) Interface - Analog Switches, Multiplexers, Demultiplexers Package 16-VQFN Exposed Pad Series - Switch Circuit SPST - NO Multiplexer/Demultiplexer Circuit 1:1 Number of Circuits 4 On-State Resistance (Max) 25 Ohm Channel-to-Channel Matching (Ron) 500 mOhm Voltage - Supply, Single (V+) 2.7 V ~ 12 V Voltage - Supply, Dual (V±) ±2.6 V ~ 6 V Switch Time (Ton, Toff) (Max) 65ns, 50ns -3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	•	
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Series - Switch Circuit SPST - NO Multiplexer/Demultiplexer Circuit 1:1 Number of Circuits 4 On-State Resistance (Max) 25 Ohm Channel-to-Channel Matching (Ron) 500 mOhm Voltage - Supply, Single (V+) 2.7 V ~ 12 V Voltage - Supply, Dual (V±) ±2.6 V ~ 6 V Switch Time (Ton, Toff) (Max) 65ns, 50ns -3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)		Interface - Analog Switches, Multiplexers, Demultiplexers
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Multiplexer/Demultiplexer Circuit Number of Circuits 4 On-State Resistance (Max) Channel-to-Channel Matching (Ron) Voltage - Supply, Single (V+) Voltage - Supply, Dual (V±) Switch Time (Ton, Toff) (Max) -3db Bandwidth -Channel Capacitance (CS(off), CD(off)) Channel Capacitance (CS(off)) Current - Leakage (IS(off)) (Max) Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package	Series	-
Number of Circuits4On-State Resistance (Max) 25 Ohm Channel-to-Channel Matching (Ron) 500 mOhm Voltage - Supply, Single (V+) $2.7 \text{ V} \sim 12 \text{ V}$ Voltage - Supply, Dual (V \pm) $\pm 2.6 \text{ V} \sim 6 \text{ V}$ Switch Time (Ton, Toff) (Max) 65ns , 50ns -3db Bandwidth-Charge Injection 5pC (Max)Channel Capacitance (CS(off), CD(off)) 10pF , 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Package / Case 16-VQFN Exposed PadSupplier Device Package 16-QFN (4x4)	Switch Circuit	SPST - NO
On-State Resistance (Max) Channel-to-Channel Matching (Ron) 500 mOhm Voltage - Supply, Single (V+) 2.7 V ~ 12 V Voltage - Supply, Dual (V±) ±2.6 V ~ 6 V Switch Time (Ton, Toff) (Max) -3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Multiplexer/Demultiplexer Circuit	1:1
Channel-to-Channel Matching (Ron) Voltage - Supply, Single (V+) 2.7 V ~ 12 V Voltage - Supply, Dual (V±) \$\frac{\pmatch{\text{2}}}{2.6}\$ V ~ 6 V Switch Time (Ton, Toff) (Max) -3db Bandwidth - Charge Injection \$\frac{5pC}{Max}\$ Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package	Number of Circuits	4
Voltage - Supply, Single (V+) 2.7 V ~ 12 V Voltage - Supply, Dual (V \pm) \pm 2.6 V ~ 6 V Switch Time (Ton, Toff) (Max) 65ns, 50ns -3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	On-State Resistance (Max)	25 Ohm
Voltage - Supply, Dual (V±) ±2.6 V ~ 6 V Switch Time (Ton, Toff) (Max) 65ns, 50ns -3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Channel-to-Channel Matching (Ron)	500 mOhm
Switch Time (Ton, Toff) (Max) -3db Bandwidth -Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package	Voltage - Supply, Single (V+)	2.7 V ~ 12 V
-3db Bandwidth - Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Voltage - Supply, Dual (V±)	±2.6 V ~ 6 V
Charge Injection 5pC (Max) Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Switch Time (Ton, Toff) (Max)	65ns, 50ns
Channel Capacitance (CS(off), CD(off)) 10pF, 26pF Current - Leakage (IS(off)) (Max) 100pA Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	-3db Bandwidth	-
Current - Leakage (IS(off)) (Max) Crosstalk Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Charge Injection	5pC (Max)
Crosstalk -89dB @ 1MHz Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Channel Capacitance (CS(off), CD(off))	10pF, 26pF
Operating Temperature -40°C ~ 85°C (TA) Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Current - Leakage (IS(off)) (Max)	100pA
Package / Case 16-VQFN Exposed Pad Supplier Device Package 16-QFN (4x4)	Crosstalk	-89dB @ 1MHz
Supplier Device Package 16-QFN (4x4)	Operating Temperature	-40°C ~ 85°C (TA)
	Package / Case	16-VQFN Exposed Pad
Report errors?	Supplier Device Package	16-QFN (4x4)
		Report errors?

ISL43144IR 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.

ISL43144IR Payment Methods



















ISL43144IR Shipping Methods













If you have any question about ISL43144IR, please do not hesitate to contact us!

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