



### **ISL6412IR Information**



For Reference Only

Part Number ISL6412IR

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)

PMIC - Voltage Regulators - Linear

**Description** IC REG LIN 1.8V/2.8V/2.8V 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**

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.









## **ISL6412IR Specifications**

Manufacturer Part NumberISL6412IRManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)Package16-VQFN Exposed PadSeries-Output ConfigurationPositiveOutput TypeFixedNumber of Regulators3Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.8V, 2.8V, 2.8VVoltage - Output (Max)-Voltage Dropout (Max)-, 0.16V @ 225mA, 0.16V @ 125mACurrent - Output330mA, 225mA, 125mACurrent - Quiescent (Iq)1.125mACurrent - Supply (Max)-PSRR-Control FeaturesEnable, Fault Output, ResetProtection FeaturesOver Current, Over Temperature, Short CircuitOperating Temperature-40°C ~ 85°CMounting TypeSurface MountPackage / Case16-VQFN Exposed PadSupplier Device Package16-QFN (Ex44)	15E04121K Specifications	
Category         Integrated Circuits (ICs)           PMIC - Voltage Regulators - Linear           Package         16-VQFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         3           Voltage - Input (Max)         3.6V           Voltage - Output (Min/Fixed)         1.8V, 2.8V, 2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         -, 0.16V @ 225mA, 0.16V @ 125mA           Current - Output         330mA, 225mA, 125mA           Current - Quiescent (Iq)         1.125mA           Current - Supply (Max)         -           PSRR         -           Control Features         Enable, Fault Output, Reset           Protection Features         Over Current, Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         16-VQFN Exposed Pad	Manufacturer Part Number	ISL6412IR
PMIC - Voltage Regulators - Linear           Package         16-VQFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         3           Voltage - Input (Max)         3.6V           Voltage - Output (Min/Fixed)         1.8V, 2.8V, 2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         -, 0.16V @ 225mA, 0.16V @ 125mA           Current - Output         330mA, 225mA, 125mA           Current - Quiescent (Iq)         1.125mA           Current - Supply (Max)         -           PSRR         -           Control Features         Enable, Fault Output, Reset           Protection Features         Over Current, Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         16-VQFN Exposed Pad	Manufacturer	Renesas Electronics America
Package16-VQFN Exposed PadSeries-Output ConfigurationPositiveOutput TypeFixedNumber of Regulators3Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.8V, 2.8V, 2.8VVoltage - Output (Max)-Voltage Dropout (Max)-, 0.16V @ 225mA, 0.16V @ 125mACurrent - Output330mA, 225mA, 125mACurrent - Quiescent (Iq)1.125mACurrent - Supply (Max)-PSRR-Control FeaturesEnable, Fault Output, ResetProtection FeaturesOver Current, Over Temperature, Short CircuitOperating Temperature-40°C ~ 85°CMounting TypeSurface MountPackage / Case16-VQFN Exposed Pad	Category	Integrated Circuits (ICs)
Series         -           Output Configuration         Positive           Output Type         Fixed           Number of Regulators         3           Voltage - Input (Max)         3.6V           Voltage - Output (Min/Fixed)         1.8V, 2.8V, 2.8V           Voltage - Output (Max)         -           Voltage Dropout (Max)         -, 0.16V @ 225mA, 0.16V @ 125mA           Current - Output         330mA, 225mA, 125mA           Current - Quiescent (Iq)         1.125mA           Current - Supply (Max)         -           PSRR         -           Control Features         Enable, Fault Output, Reset           Protection Features         Over Current, Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         16-VQFN Exposed Pad		PMIC - Voltage Regulators - Linear
Output ConfigurationPositiveOutput TypeFixedNumber of Regulators3Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.8V, 2.8V, 2.8VVoltage - Output (Max)-Voltage Dropout (Max)-, 0.16V @ 225mA, 0.16V @ 125mACurrent - Output330mA, 225mA, 125mACurrent - Quiescent (Iq)1.125mACurrent - Supply (Max)-PSRR-Control FeaturesEnable, Fault Output, ResetProtection FeaturesOver Current, Over Temperature, Short CircuitOperating Temperature-40°C ~ 85°CMounting TypeSurface MountPackage / Case16-VQFN Exposed Pad	Package	16-VQFN Exposed Pad
Output Type Fixed  Number of Regulators 3  Voltage - Input (Max) 3.6V  Voltage - Output (Min/Fixed) 1.8V, 2.8V, 2.8V  Voltage - Output (Max) -, 0.16V @ 225mA, 0.16V @ 125mA  Current - Output (Axx) 330mA, 225mA, 125mA  Current - Quiescent (Iq) 1.125mA  Current - Supply (Max) -  PSRR -  Control Features Enable, Fault Output, Reset  Protection Features Over Current, Over Temperature, Short Circuit  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	Series	-
Number of Regulators  Voltage - Input (Max)  3.6V  Voltage - Output (Min/Fixed)  1.8V, 2.8V, 2.8V  Voltage - Output (Max)  -, 0.16V @ 225mA, 0.16V @ 125mA  Current - Output  330mA, 225mA, 125mA  Current - Quiescent (Iq)  1.125mA  Current - Supply (Max)  - PSRR  - Control Features  Enable, Fault Output, Reset  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Output Configuration	Positive
Voltage - Input (Max)  Voltage - Output (Min/Fixed)  1.8V, 2.8V, 2.8V  Voltage - Output (Max)  - (0.16V @ 225mA, 0.16V @ 125mA)  Current - Output  330mA, 225mA, 125mA  Current - Quiescent (Iq)  1.125mA  Current - Supply (Max)  - PSRR  Control Features  Enable, Fault Output, Reset  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Output Type	Fixed
Voltage - Output (Min/Fixed)  1.8V, 2.8V, 2.8V  Voltage - Output (Max)  -, 0.16V @ 225mA, 0.16V @ 125mA  Current - Output  330mA, 225mA, 125mA  Current - Quiescent (Iq)  1.125mA  Current - Supply (Max)  - PSRR  - Control Features  Enable, Fault Output, Reset  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Number of Regulators	3
Voltage - Output (Max)  Voltage Dropout (Max)  -, 0.16V @ 225mA, 0.16V @ 125mA  Current - Output  330mA, 225mA, 125mA  Current - Quiescent (Iq)  1.125mA  Current - Supply (Max)  - PSRR  - Control Features  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Voltage - Input (Max)	3.6V
Voltage Dropout (Max)  -, 0.16V @ 225mA, 0.16V @ 125mA  Current - Output  330mA, 225mA, 125mA  Current - Quiescent (Iq)  1.125mA  - Current - Supply (Max)  - PSRR  - Control Features  Enable, Fault Output, Reset  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Voltage - Output (Min/Fixed)	1.8V, 2.8V, 2.8V
Current - Output 330mA, 225mA, 125mA  Current - Quiescent (Iq) 1.125mA  Current - Supply (Max) -  PSRR -  Control Features Enable, Fault Output, Reset  Protection Features Over Current, Over Temperature, Short Circuit  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	Voltage - Output (Max)	-
Current - Quiescent (Iq)  Current - Supply (Max)  - PSRR  - Control Features  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Voltage Dropout (Max)	-, 0.16V @ 225mA, 0.16V @ 125mA
Current - Supply (Max)  PSRR  - Control Features  Enable, Fault Output, Reset  Protection Features  Over Current, Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  16-VQFN Exposed Pad	Current - Output	330mA, 225mA, 125mA
PSRR - Control Features Enable, Fault Output, Reset  Protection Features Over Current, Over Temperature, Short Circuit  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	Current - Quiescent (Iq)	1.125mA
Control Features Enable, Fault Output, Reset  Over Current, Over Temperature, Short Circuit  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	Current - Supply (Max)	-
Protection Features Over Current, Over Temperature, Short Circuit  Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	PSRR	-
Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 16-VQFN Exposed Pad	Control Features	Enable, Fault Output, Reset
Mounting Type Surface Mount Package / Case 16-VQFN Exposed Pad	Protection Features	Over Current, Over Temperature, Short Circuit
Package / Case 16-VQFN Exposed Pad	Operating Temperature	-40°C ~ 85°C
• • •	Mounting Type	Surface Mount
Supplier Device Package 16-QFN (4x4)	Package / Case	16-VQFN Exposed Pad
	Supplier Device Package	16-QFN (4x4)
Report errors?		Report errors?

### **ISL6412IR 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.

# **ISL6412IR Payment Methods**





















## **ISL6412IR Shipping Methods**













If you have any question about ISL6412IR, please do not hesitate to contact us!

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